ENVIRONMENTAL LIFE CYCLE ASSESSMENT OF LINOLEUM

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Research commissioned by Forbo-Krommenie B.V.

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Summary

Introduction

Forbo-Krommenie B.V. commissioned the Centre of Environmental Science (CML) to carry out an Environmental Life Cycle Assessment (LCA) with the purpose of assessing the environmental performance of linoleum floors, indicating possible options for improvement, and assessing the sensitivity of the results to methodical choices. The method followed in this study is based on Guinée *et al.* (2000) an update of the CML guide on LCA from Heijungs *et al.* (1992).

Goal and scope

The goal of this LCA study was to gain insight into:

- The environmental impact of Linoleum floor coverings.
- The effects of the different processes in the life cycle chain on the environmental impact of linoleum.
- Identifying possible improvements,
- The effects of choices in methods and data on the outcomes.

The following functional unit was used as a basis for this study:

2000 m^2 linoleum (produced by Forbo-Krommenie B.V. in 1998) used in an office or public building over a period of 20 years.

Three different functional equivalent alternative systems were considered:

- The baseline system: The production, laying, use and maintenance of 2000 m^2 2.5 mm Marmoleum®, in an office or public building in the Netherlands, over a period of 20 years and its subsequent disposal.
- The Swedish system: The production, laying, use and maintenance of 2000 m^2 2.0 mm Marmoleum®, in an office or public building in Sweden, over a period of 20 years and its subsequent disposal.
- The Corklinoleum system: The production, laying, use and maintenance of 2000 m^2 4.5 mm Corklinoleum, in an office or public building in the Netherlands, over a period of 20 years and its subsequent disposal.

Besides these various systems, a number of scenarios were examined with the purpose of providing a sensitivity analysis.

Inventory and impact assessement

The inventory and impact assessment were carried out conform a nearly final draft version of Guineé *et al.* (2000), an update of the LCA-guide by Heijungs *et al.* (1992) . This update follows the ISO standards as closely as possible, providing an operational outline of the theoretical starting points, requirements and guidelines given in the different ISO documents on LCA (ISO 14040, 14041, 14042 & 14043), as known to the authors when writing this report (December 1999). Some deviations from ISO standards have also been made mainly concerning the form of reporting.

Data gaps

No process data was available for the following processes:

- The production and transport of pesticides (use and emission of pesticides is included).
- The production and transport of some raw materials needed for maintenance products (additives, thickeners, solvents) and almost all ingredients for those materials.
- The production and transport of some raw materials needed for the production of materials used during laying (adhesives and materials used to seal the seams of professionally used linoleum floors)
- The production and transport of a catalyst needed in the process "esterification of tall oil ".

- The production and transport of the fertiliser S needed in the process "growing linseed " .
- The production and transport of the maintenance product used for removing the polymer dressing of linoleum floor covering needed in the process "the use and maintenance of 1m2 linoleum for 20 years ".

Impact categories

The following impact categories are included in this study:

- Extraction of abiotic resources
- Climate change
- Depletion of the ozone layer
- Human toxicity
- Eco-toxicity
- subcategory: aquatic eco-toxicity
- subcategory: terrestrial eco-toxicity
- subcategory: sediment eco-toxicity
- Photo-oxidant formation
- Acidification
- Eutrophication
- odour

Besides the impact assessment method described in Guinée *et al.* (2000), a few other impact assessment methods were applied to determine the extent to which the results of the study are influenced by the method of impact assessment used.

Flows not assigned to an impact category

In total there were 264 inputs/outputs that could not be assigned to an impact category. These are mainly from the ETH database. A large portion of the emissions (132 emissions) are radioactive emissions. Since radiation is not included in this study (because no consensus has yet been reached concerning the impact assessment method to be used) it could not be included in the impact assessment results.

Interpretation and conclusions

Main contributing processes

The processes or groups of processes that contribute largely to more than one impact category are:

- The growing of linseed (emissions of NH_3, N_20 , pesticides).
- Gas and electricity used at Forbo-Krommenie B.V.
- Oil used for the production of maintenance products.
- The transport of raw materials.
- The incineration of linoleum.
- Coal used for the production of detergents and acrylic dispersions/emulsions.

Scenarios

The following conclusions were drawn from the scenarios:

- Extra transport by freighter to the USA has less impact than was expected.
- The influence of maintenance in the "use " phase is not negligible as is often thought.
- The influence of other pigments than TiO2 can be considerable. TiO2 is not representative for other pigments. The impact of other pigments may be high even though their mass share in the product is much lower.
- Using tall oil in linoleum is better for the environment than using only linseed oil.
- Using 2.0 mm linoleum is better for the environment. However, this is only the case if the life span of the 2.0 mm linoleum is more or less the same as for the 2.5 mm version.
- Substitution of useful heat produced during the incinerating of linoleum with avoided electricity use is the best of the studied alternatives.

- Reduction in the use of pesticide only effects terrestrial ecotoxicity, and not the other toxicity categories.
- Reduction in the use of N-fertiliser affects the results for global warming, eutrophication and acidification substantially.
- Reduction of the transportation distance for raw materials has some effect on aquatic and sediment ecotoxicity.
- Changes in the composition of the VOC emissions at Forbo-Krommenie B.V. have a considerable influence on the category "odour ". A better estimate of the composition of these emissions is necessary in order to assess the effects on "odour " and "depletion of the ozone layer " properly in an LCA on linoleum products.
- The influence of capital goods is certainly not negligible. According to a very rough scenario leaving out capital goods may lead to an underestimation of 1-10%. The influence of the missing chemicals could be even more substantial. According to a very rough scenario these data gaps may lead to an underestimation of 5-40%.

Data quality and applicability

The main conclusions following from the analysis of data quality are:

- The results of the study are applicable for analysis of the described systems only. This means that:
  - The results should not be used to compare the environmental performance of linoleum produced by Forbo-Krommenie B.V. to other products.
  - The results should not be used to compare systems with different capital goods because capital goods are not included.
  - The results should not be used to compare different maintenance systems because too much data on chemicals in maintenance products is missing.
- The results for "odour " and "depletion of the ozone layer " should be presented with some care as the unreliable VOC estimations at Forbo-Krommenie B.V. play an important role in these impact categories.

Discussion & final conclusions

Main contributing processes

In the stage "production of raw materials" the processes "growing of linseed" and "transport" are important processes. The data for this process depend largely on assumptions. If these assumptions are not realistic, this may have large influences on results. Therefore, it is advisable to try to ground these assumptions with better data. Still, Forbo-Krommenie B.V. could improve their environmental performance on many impact categories by using linseed that is cultivated with less fertiliser and less pesticides.

In the stage "production of linoleum " the energy used at Forbo-Krommenie B.V. is most important. We expect that this data is valid and reliable. Saving on the use of electricity and gas is therefore an opportunity for improvement.

In the stage "laying and use ", the coal and oil used during the production of maintenance products is important. Data on the production of maintenance products is not complete. The results of the comparison of the Dutch and Swedish scenario showed a heavy influence of the lack of data on the production of Swedish maintenance products. Therefore, no conclusions can be based on the comparison of these maintenance systems, other than that maintenance is not negligible. Better data on maintenance products is needed before more conclusions can be drawn on the influence of maintenance.

In the stage "disposal " the emissions produced during incineration are important. However, the figure of 100% incineration of used linoleum and the linoleum waste from Forbo-Krommenie B.V. is only an assumption. From the scenario analysis followed that substitution of useful heat produced during the incinerating of linoleum with avoided electricity use shows the best environmental profile of all studied alternatives for handling waste. Therefore incineration seems a better alternative than landfill.

However, this result should be considered with some care, because for landfills average ETH-data was used. These are probably not very realistic for the landfill of linoleum.

Composition of linoleum

In the scenarios a number of variation in linoleum composition have been studied. This showed that:

- The sensitivity analysis showed that the contribution of pigments other than TiO_2 to all impact categories can be considerable. However the data on pigments could not be checked for quality. Moreover, these data were not provided by the suppliers of the pigments and the representativeness of these data might be disputed. There is a great variety of possible pigments, but little available information concerning their environmental performance. A more detailed analysis on this point focusing on the pigments that are actually used by Forbo-Krommenie B.V., aimed at finding pigments that are the most environment-friendly could be valuable.
- The 2.0 mm gauge has a considerably better environmental performance than the 2.5 mm gauge. On average, the results for this gauge are 15% lower. If the life span of both floors is comparable, Forbo-Krommenie B.V. might consider producing relatively more 2.0 mm products as a means of improving their environmental performance.
- Linoleum with tall oil has a better environmental profile than linoleum without tall oil, because the use of linseed is lower.
- Compared to the baseline 2.5 mm linoleum cork linoleum produces better results in most categories, but performs considerably worse in the categories "abiotic depletion " and "odour ". Were the gas use during drying and milling of cork-granulate reduced, it would improve the results for these categories.

Data gaps

The influence of capital goods is certainly not negligible. According to a very rough scenario leaving out capital goods may lead to an underestimation of 1-10%). The influence of the missing chemicals could be even more substantial. According to a very rough scenario these data gaps may lead to an underestimation of 5-40%). Therefore, the results should not be used to compare systems with different capital goods or different maintenance systems. The results of the study are applicable for analysis of the described systems only.

VOC

The result for "odour " and "depletion of the ozone layer " should be considered with some care, since the emissions of VOC from Forbo-Krommenie B.V., which play an important role in these impact categories, were not specified.

Improvement options & advice for further studies

Improvement options

- Forbo-Krommenie B.V. could improve their environmental performance on many impact categories by using linseed that is cultivated with less fertilisers and less pesticides. This seems a more promising option than reducing transportation distances for raw materials.
- Saving on the use of electricity and gas at Forbo-Krommenie B.V. is also an area for improvement.
- The pigments used can have a large influence on environmental performance. A more detailed analysis on this point, aimed at finding pigments, which are safest for the environment, could be valuable.
- The 2.0 mm gauge has a considerably better environmental performance than the 2.5 mm gauge. On an average, the results for this gauge are 15% lower. If the lifetime of both floors is comparable, Forbo-Krommenie B.V. might consider producing relatively more 2.0 mm products in order to improve their environmental performance.
- Linoleum with tall oil shows a better environmental profile than linoleum without tall oil. Therefore, a reduction in the amount of tall oil, in favour of linseed oil, is not advisable.
- Reducing gas use during the drying and milling of cork-granulate would improve the results for "abiotic depletion" and "odour " for cork linoleum. For other categories cork linoleum already produces better results compared to baseline 2.5 mm linoleum.

Advice for future studies on linoleum

It is advisable to give the following topics extra attention in future studies on linoleum as the data on these topics is fragmented and its influence on the environmental profile of linoleum could be considerable:

- The production and use of maintenance products, especially the Swedish type.
- The production and use of pigments other than TiO2.
- Emissions of individual VOC at the site of Forbo-Krommenie B.V.

Critical review statement of LCA of linoleum floors

CML has performed a Life Cycle Assessment (LCA) of linoleum floors, commissioned by Forbo Krommenie B.V. The critical review has been performed in three phases, and two meetings have been held. The last review was to confirm that the comments in the second phase where taken into account.

The goal of the study has been to learn about the environmental impact of the Linoleum floor coverings and the different contributing processes, to identify possible improvements and to learn about effects of choices in methods and data on the outcome. The first part of the goal is definitely met, since the results show which processes that contribute significantly to the different environmental impacts. Out of the identified significant issues, improvement options are suggested. These can be studied further in improvement assessments. The effects of choices in methods and data are partly studied and concluded on.

The critical review has been performed in order to:

- check that the methodology is in compliance with international standards on LCA, ISO 14040-14043, and scientifically and technically valid
- give advice on the data sources used
- check that the report is transparent and consistent
- check that the interpretation and the conclusions drawn reflect the limitations identified and the goal of the study

Compliance

The study has been performed according to all main requirements of the ISO 14040, 14041, 14042 and 14043 standards. Requirements such as sensitivity analysis in order to check the chosen criteria for inclusion of inputs and outputs is rather detailed, and hardly ever possible to fulfil for each input and output! The impact assessment give often a result that is incomplete (e.g. for photo oxidant formation, toxicity and odour) more because of lack of data than on the deficiencies of the characterisation methods. Since conclusions are based on more robust impact categories, the uncertainty within these impact categories does not effect the conclusions.

Data

Site specific data have been used when available. There are data gaps in the study, but many of the gaps have by a sensitivity check been shown not to be of large importance for the main results. Important data gaps may be the pigments used, the maintenance products used (the production of these products) and the VOCs from the linoleum production and storage. Other data gaps are emissions from landfill and incineration of Linoleum.
Essential assumptions for data and data sources are documented in a transparent way in an annex. However, the inputs and outputs for each process is only documented in the LCA tool, which is not so easy to use, why the inventory calculations have not been checked.

Methods

The methodology used is presented in a clear way. Some deviations from ISO recommendations exist, e.g. for incineration and landfill, where the allocation used in the ETH database has been used instead of a methodology recommended by the ISO 14041. This seems to have a small contribution to the total results, however, why this probably does not influence the main results.

Interpretation

The interpretation has been done in accordance with the requirements of 14043, and in line with the goal and scope. The sensitivity analysis of e.g. the pesticide use show in an illustrative way how the uncertainty in amounts of pesticide and fertiliser effects the different impact categories. The conclusions are drawn in line with the goal and scope.
The conclusion is that the report can contribute to the increased knowledge of Forbo about the environmental impact of Linoleum floor covering, and that it is a good basis for further studies. The results can be communicated externally, since there is a third party report that shows how the study

has been performed. It should, however, be clear when results are communicated that the results can not be compared to results of other studies, since the choice of methodology, assumptions, system boundaries, data for e.g. electricity production etc often differ to a large extent.
At last the critical reviewer would like to thank for a good and constructive co-operation.

Elin Eriksson
CIT Ekologik, Stiftelsen CHALMERS INDUSTRITEKNIK
Göteborg, 2000-06-20

1 Introduction

1.1 General

Linoleum is a floor covering consisting of a binder made from linseed oil and/or vegetable drying oils and rosin mixed with wood flour and/or cork, inorganic filler and pigments, on a carrier of jute. Forbo-Krommenie B.V. is the world's largest producer of linoleum floor covering (Marmoleum®, Artoleum®, Corklinoleum and Walton) and of other linoleum products (Desk Top® and Bulletin Board®). The products are sold all over the world but principally in Western Europe and the USA. Forbo-Krommenie B.V. commissioned the Centre of Environmental Science (CML) to carry out an Environmental Life Cycle Assessment (LCA) in order to assess the environmental performance of linoleum floors, to indicate possible options for improvement, and to assess the sensitivity of the results in methodical choices.

Elin Eriksson, of Chalmers Industriteknik in Sweden carried out a peer review.

1.2 Environmental Life Cycle Assessment (LCA)

The LCA is defined by ISO as a "compilation and evaluation of the inputs and outputs and the potential environmental impacts of a product system throughout its life cycle " (ISO 14040, 1997). It is a method that is meant, based on a 'cradle-to-grave' approach, to systematically evaluate the environmental impacts of products and activities. This approach is based on the identification and quantification of the flows of substances and materials (or other interventions) to and from the economy and the environment, during the entire life cycle of the product or activity. Economy is defined here as all human activities that take place more or less isolated from the environment. In other publication, sometimes the word 'technosphere' is used to describe this concept. In Figure 1 the main methodological framework according to ISO is given.

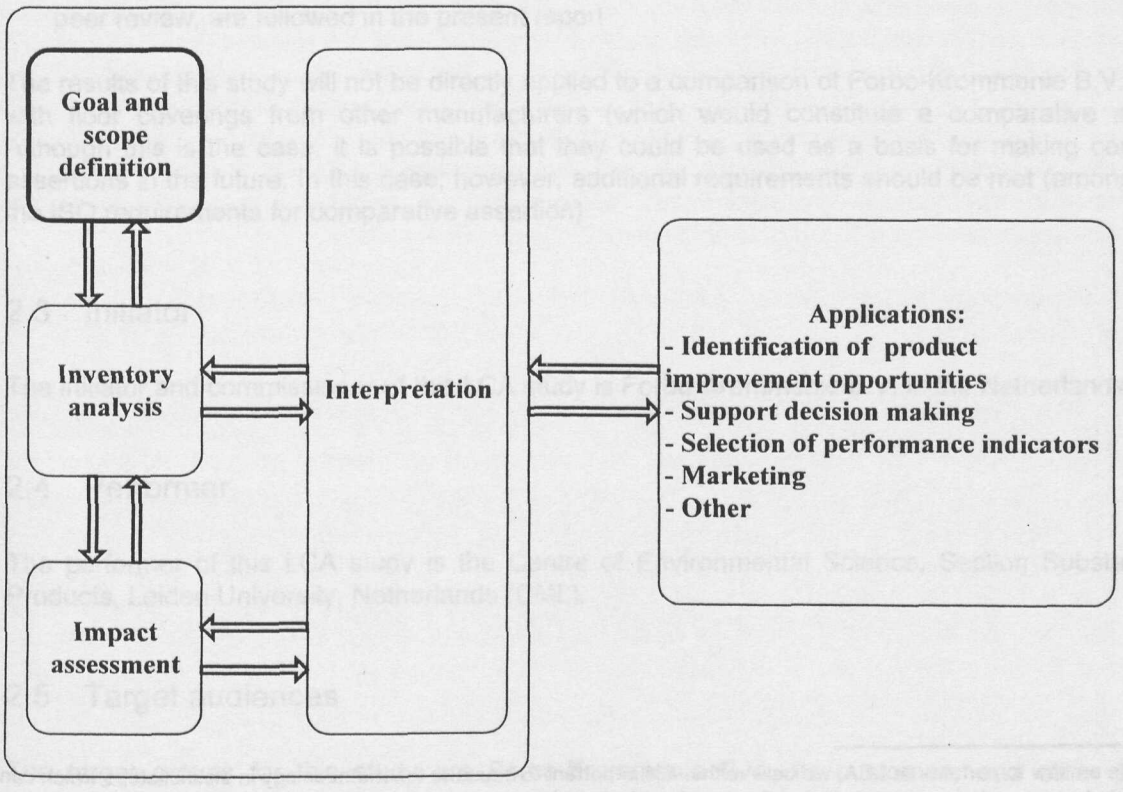


Figure 1: The general methodological framework for LCA (ISO 14040, 1997).

In ISO 14040, 14041, 14042 & 14043 requirements are stated for every phase of the LCA and even more technical reports and standards are in development. These ISO standards and guidelines are very important in providing an international reference on principles, framework and terminology for conducting and reporting LCA studies. The ISO standards, however, do not supply the reader with a "cookbook " outlining step-by-step operational guidelines for conducting a LCA study. ISO standards contain elements that shall or should be considered when conducting an LCA, and when communicating the results.

Currently, Guinée *et al.* (2000) are writing an update of the LCA-guide by Heijungs *et al.*, (1992). This update follows the ISO standards and guidelines as closely as possible, providing an operational outline of the theoretical starting points, requirements and guidelines given in the different ISO documents on LCA (ISO 14040, 14041, 14042 & 14043), as known to the authors at the moment of writing (December 1999). Guinée *et al.* (2000) take the Guide by Heijungs *et al.* (1992) as a starting point, and then further update this guide[1] by including all relevant developments which have taken place since its publication, with particular reference to the work taking place within the SETAC community. Some additions to ISO standards have been made in order to achieve operationalisation. Some deviations from ISO standards have also been made, but only if there were really significant arguments to do so. The main deviations concern the form of reporting. In Guineé *et al.* (2000) the guidelines for reporting are different for separate goal and scope studies (which is in line with ISO), and for final reports, in which the description and discussion of several topics is not placed in the goal and scope, but rather in later sections of the report closer to the topic itself (e.g. data quality, system boundaries etc.). Additions and deviations have all been documented comprehensively in the guide. The present study is based on the nearly final draft version of the updated guide (Guineé *et al.*, 2000).

[1] For a Guide on how to perform an LCA, we believe that it is important to structure the methodology in distinct steps which can be documented and reported separately in an LCA-report, and which follow a logic working plan. Iterations between steps are always possible and necessary, as LCA is an iterative technique, but iteration as such is not an individual step.

2 Goal of the study

In the goal definition of an LCA, besides the goal also the intended application, initiator, performer and intended audience should be stated according to ISO (ISO, 14040). In this chapter, these topics are described sequentially.

2.1 Goal definition

The goal of this LCA study is to gain insight into:

- The environmental impact of linoleum floor coverings.
- The effects of the different processes in the life cycle chain on the environmental impact of linoleum floor covering.
- Identifying possible improvements
- The effects of choices in methods and data on the outcomes.

2.2 Intended application of the study results

The results of this LCA will be used:

- For product and process development:
  Forbo-Krommenie B.V. wants to be able to analyse (with the aid of the delivered software) the effects of process changes in terms of technology, input and product composition on the total environmental impact. This information can, in turn, be used to prioritise different measures that may be taken to improve Forbo-Krommenie B.V.'s environmental performance.
- As a basis for answering questions received from business relations
- Possibly as basis for a brochure that serves marketing needs by communicating the environmental performance of Forbo-Krommenie B.V.'s products to external relations. Therefore, the requirements for third-party reports from ISO (ISO 14040, 14041 and 14042), including a critical peer review, are followed in the present report

The results of this study will not be directly applied to a comparison of Forbo-Krommenie B.V. products with floor coverings from other manufacturers (which would constitute a comparative assertion). Although this is the case, it is possible that they could be used as a basis for making comparative assertions in the future. In this case, however, additional requirements should be met (amongst others the ISO requirements for comparative assertion).

2.3 Initiator

The initiator and commissioner of this LCA study is Forbo-Krommenie B.V. in the Netherlands.

2.4 Performer

The performer of this LCA study is the Centre of Environmental Science, Section Substances and Products, Leiden University, Netherlands (CML).

2.5 Target audiences

The target groups for this study are Forbo-Krommenie B.V., its customers and other associates interested in the environmental performance of linoleum products.

3 Scope of the study

In this chapter, principal choices concerning the scope of the study are outlined. These include the breadth and depth of the study, functional units and functionally equivalent systems. These are described in § 3.1 to 3.4.

According to ISO, main choices and assumptions on the next phases of the LCA should be described under scope. These include choices and assumptions on system boundaries, data collection, applicability etc. However, Guinée *et al.* (2000) advise doing so only in the initial goal and scope description. In the description of a fully elaborated LCA, such assumptions should be treated, in as far as possible, where the topic itself is described in the report, since assumptions and choices often change during typically iterative LCA processes. In order to adhere as closely as possible to the ISO guidelines, we summarise the main assumptions and choices in § 3.5.

In § 3.6 finally the ISO guidelines concerning third party reporting and the need for a peer review are described.

3.1 Level of sophistication

An LCA can be performed so as to articulate a range of levels of sophistication. These levels are described in Guinée *et al.* (2000). For this linoleum LCA, a detailed LCA is carried out using default methods and sensitivity analysis on non-default methods. This is the operative level for a professional study, for a vast but not overly complex application. The ISO guidelines are followed as closely as possible (ISO 14040, 14042, 14042 & 14043), including the recommended sensitivity analysis.

3.2 Type of analysis: descriptive and change oriented

This LCA describes environmental burdens that may be attributed to (the use of) a certain amount of a product or service (= descriptive) but also focuses on arguments to improve technologies and production processes (change oriented). This LCA should, therefore, be considered as a change oriented LCA rather than as a descriptive one. One of the main requirements of a change oriented LCA is that the processes included should be up to date so, that a fair comparison may be made between a system with "old " processes and a changed system with improved processes, both based on recent data. In this study we used the most recent data available, mainly from 1998. The "marginal average " discussions currently taking place in LCA fora are not included in this study.[2]

3.3 Functional unit

The functional unit describes the main function(s) fulfilled by a product system and indicates how much of this function is considered.

This study is carried out in the form of an LCA of a baseline product system which is combined with a sensitivity analysis in order to gain insight into such topics as the effects of differences in production methods, data quality, use, and countries to which the product is sold. In this sensitivity analysis data, methods and choices are varied and, in some scenarios even, the product system has been changed substantially. In order to avoid the necessity of defining a different functional unit for every scenario, it was decided to keep the functional unit applicable to all scenarios by making the definition rather broad. This is most useful in the present study in which a number of scenarios play an important role.

[2] All inventory data is average data. In the impact assessment, both average and marginal methods are often used as the best available methods per impact category, leaving no choice here. This method is either average or marginal.

For example, it makes it possible to use the same functional unit for a linoleum floor used in the Netherlands and in Sweden. However should the result of this study be used in other applications, (e.g. in a comparative assertion concerning different floor coverings) the functional unit should be defined more rigidly, in order to avoid large differences in functionality between the alternative systems.

For the definition of the functional unit, the following elements were considered:

- The function.
- The spatial context.
- The temporal context.
- The users behaviour.
- The unit.
- The quantity.

These elements are hereafter discussed in relation to the LCA on linoleum.

Function

Linoleum's function is floor covering. Linoleum floor covering can be used in different situations, e.g. in private homes, public buildings or offices. The situation and the intensity of use influence the life span of the floor. In this study we focused on linoleum floor covering in public and commercial use areas as the baseline LCA. Linoleum is sold as a floor covering mainly to hospitals, schools, offices, etc.

Spatial context

While all linoleum is produced in a factory in Assendelft[3], in the Netherlands, linoleum is used all over the world. This means that there are differences in the distance and method of transport of the linoleum floor covering as well as possible differences in the use and disposal phases. The differences between countries in the use of floor covering may include differences in maintenance (frequency of cleaning, use of cleaning products) and differences in life span (as a function of the maintenance, frequency of moving, fashion, etc.). The differences in the disposal of floor covering may include differences in recycling and differences in the ratio between combustion and dump. There may also be variance in how electricity is produced in different countries.

Because the linoleum floor covering produced by Forbo-Krommenie B.V. is used in many countries, a choice had to be made for the baseline system and the scenarios. The baseline LCA is determined as a function of the country in which most linoleum is sold, namely the Netherlands. Sweden is also a very important market for linoleum. One of the scenarios in the sensitivity analysis will, therefore, be based on Sweden. Linoleum is also sold to the USA because this has large consequences for transport distance, transport to the USA will also be included in the sensitivity analysis. To ensure the functional unit's applicability in all scenarios, no definition of the country of use is included in the functional unit.

Temporal context

1998 isthe most recent year for which Forbo-Krommenie B.V. process data is available. This year will, therefore, be the reference year for the study.

The life span of the linoleum floor can be interpreted as the technical life span or the economic life span. The technical life span is based on wear as a result of use. However, the economic life span of a floor is shorter because a floor may be removed for aesthetic reasons, for instance, when new users move into a building or when a building is renovated. This is generally referred to as the "economic life span ". The economic life span may also be influenced by the country in which the floor is used (see also spatial context). For this study, the economic life span of linoleum floors in public buildings is estimated to be 20 years (source: Forbo-Krommenie B.V.). The life span in private homes is probably shorter because people frequently replace old floor covering when moving into a new home.

User behaviour

As mentioned above consumer behaviour may differ between countries. This may influence life span and the use of maintenance products. Actual use and maintenance in a public building in the

[3] There also is a Forbo-Krommenie B.V. factory in Scotland. This is not included in this study.

Netherlands is included in the baseline system. In the Swedish scenario, we included the actual use and maintenance in a public building in Sweden, however, there was less information on Swedish maintenance than on Dutch maintenance (see Table 2 for the maintenance frequencies in public buildings in both countries).

Unit

The unit not only depends on the function, but also on the spatial and temporal context. The unit should preferably be expressed in SI units. For this study we have defined the unit as: m^2·year.

Quantity

The quantity in the baseline LCA is taken as: 40000 m^2·year. This is the use of 2000 m^2 linoleum over a period of 20 years. 2000 m^2 is representative of the floor area in an average-sized office or public building and 20 year is the economic life span of the floor in the Netherlands according to Forbo-Krommenie B.V.

This leads to the following functional unit:

The use of 2000 m^2 linoleum (produced by Forbo-Krommenie B.V. in 1998) in an office or public building over a period of 20 years.

3.4 Functionally equivalent alternative systems

After establishing the functional unit, one or more product systems capable of producing the functional unit defined above are selected.
Linoleum floor covering from Forbo-Krommenie B.V. is available in three types:

- Plain and decorative linoleum
- Corklinoleum
- Plain and decorative linoleum on a corkment backing

These are available in different gauges. For the baseline system we focused on the types of linoleum floor covering most sold, namely plain and decorative. Forbo-Krommenie B.V. sells this type of linoleum under the brand names Marmoleum®, Artoleum® and Walton. Although patterns and colours vary, the overall composition of these products is the same, with the exception of the pigments. 2.5 mm is the best-selling gauge (70% of the total return). Marmoleum 2.5 mm is, therefore, used in the baseline system. In Sweden, there is a large market for 2.0 mm Marmoleum® hence this type will be used in the "Swedish scenario ". Corklinoleum differs substantially from Marmoleum® as it is thicker (4.5 mm) and cork is used as filler instead of wood flour.

In conclusion, three different functional equivalent alternative systems are considered:

- The baseline system: This consists of the production, laying, use and maintenance of 2000 m^2 2.5 mm Marmoleum®, in an office or public building in the Netherlands, over a period of 20 years and its subsequent disposal.
- The Swedish system: This consists of the production, laying, use and maintenance of 2000 m^2 2.0 mm Marmoleum®, in an office or public building in Sweden, over a period of 20 years and its subsequent disposal.
- The Corklinoleum system: This consists of the production, laying, use and maintenance of 2000 m^2 4.5 mm Corklinoleum, in an office or public building in the Netherlands, over a period of 20 years and its subsequent disposal.

Forbo-Krommenie B.V. manufactures other products (e.g. Artoleum®, Walton) and gauges which sometimes means using slightly different production processes. However, the focus of this study was not to discuss all products manufactured by Forbo-Krommenie B.V., but rather to discuss a few relevant alternatives. Forbo-Krommenie B.V. has indicated that the three different systems described above are the most relevant.

3.5 Initial choices on methods and data

ISO requires that a number of choices on methods data and on the applicability of the study be described and discussed within the scope of the study (See ISO 14040, 140401). In accordance with Guinée *et al.* (2000) we decided to write up most of these discussions in the final report, closer to the point were these choices were made. In order to adhere closely to ISO standards, we summarised these topics below and included a reference as to where the full description/discussion on this topic may be found in the report.

- System boundaries
  In defining the system boundaries we followed the guidelines given in Guinée *et al.* (2000) which are described in the Inventory in § 4.2. The most significant choice made was to leave out the capital goods for producing linoleum.
- Criteria for inclusion of data
  Where possible in this study, we used case-specific data on processes provided by the companies were these processes take place. If this information was not complete or did not seem reliable, we used available data from other inventory studies. If case-specific information was not available, we also used other sources such as the ETH database (ETH, 1996) or data from other inventory studies. More detailed choices on the inclusion of data are described in § 4.3 and appendix A.
- Data quality
  The quality of data is discussed in the inventory section where a description of the data used in the study is given: § 4.3.
- Allocation procedures
  These are described in the section of the inventory where the allocation is carried out: § 4.4.
- Main assumptions
  The main assumptions influencing the outcome of the study are made in the inventory phase (see also above). They are, therefore, described in chapter 4 (Inventory). These assumptions concern waste treatment (incineration or landfill, substitution of useful heat when incinerating linoleum), life span, maintenance systems etc.. Other assumptions are outlined in appendix A.
- Applicability of the study
  The results of this study can be used for the application mentioned in § 2.2. The study is designed to describe the functional, alternative systems mentioned above and to analyse the not too large variations on these systems. In this form, the results cannot be used for comparative assertion or for radical changes to the system (e.g. changes leading to variance in capital goods). A more thorough discussion on data quality and the resulting applicability of the results of this study may be found in § 6.6.

3.6 ISO guidelines concerning third party reporting and peer review

Because the results of this study will probably be made public. Therefore, it has been compiled is in accordance with the ISO guidelines with respect to third party reporting. Although at present there is no comparative assertion at stake, the results may be used for this at a later stage. The study, therefore, also accords with the ISO guidelines with respect to comparative assertion and includes a peer review by an independent LCA-expert (see ISO 14040, ISO 14041, ISO 14042 and ISO 14043). This review is included in this report.

4 Inventory

In the inventory analysis, data was collected and in- and outputs were attributed to the processes. Aggregating the data ultimately resulted in a list of all environmental in- and outputs in the product system namely, the inventory table. In this chapter, all basic choices made during the construction and quantification of the product system are described. The process tree and system boundaries are described in § 4.1 and 4.2., data gathering in § 4.3 allocation of data in § 4.4 and the resulting inventory table in § 4.5 and appendix B.

For this study, we used a new software tool currently being developed at the CML: CMLCA 2.0 (Heijungs, 2000). This software is better adapted to producing results using different inventory allocation and impact assessment methods than current commercial packages. This affords the user greater freedom in defining scenarios. Unfortunately, however, the CML package is not commercially available, hence no user-friendly guide has been developed and no helpdesk exists. While this is the case, the software is available free of charge on the CML-internet site:
http://www.leidenuniv.nl/interfac/cml/ssp/cmlca.html

4.1 Process tree (baseline)

In Figure 2 the process tree for the baseline scenario is depicted.

Validity
This product system is representative for a large share of the linoleum production at Forbo-Krommenie B.V. There is, however, considerable variability in product systems for different linoleum products made by Forbo-Krommenie B.V. Therefore, in § 6.4 some alternative systems are analysed and discussed (see also § 3.4).

Reliability

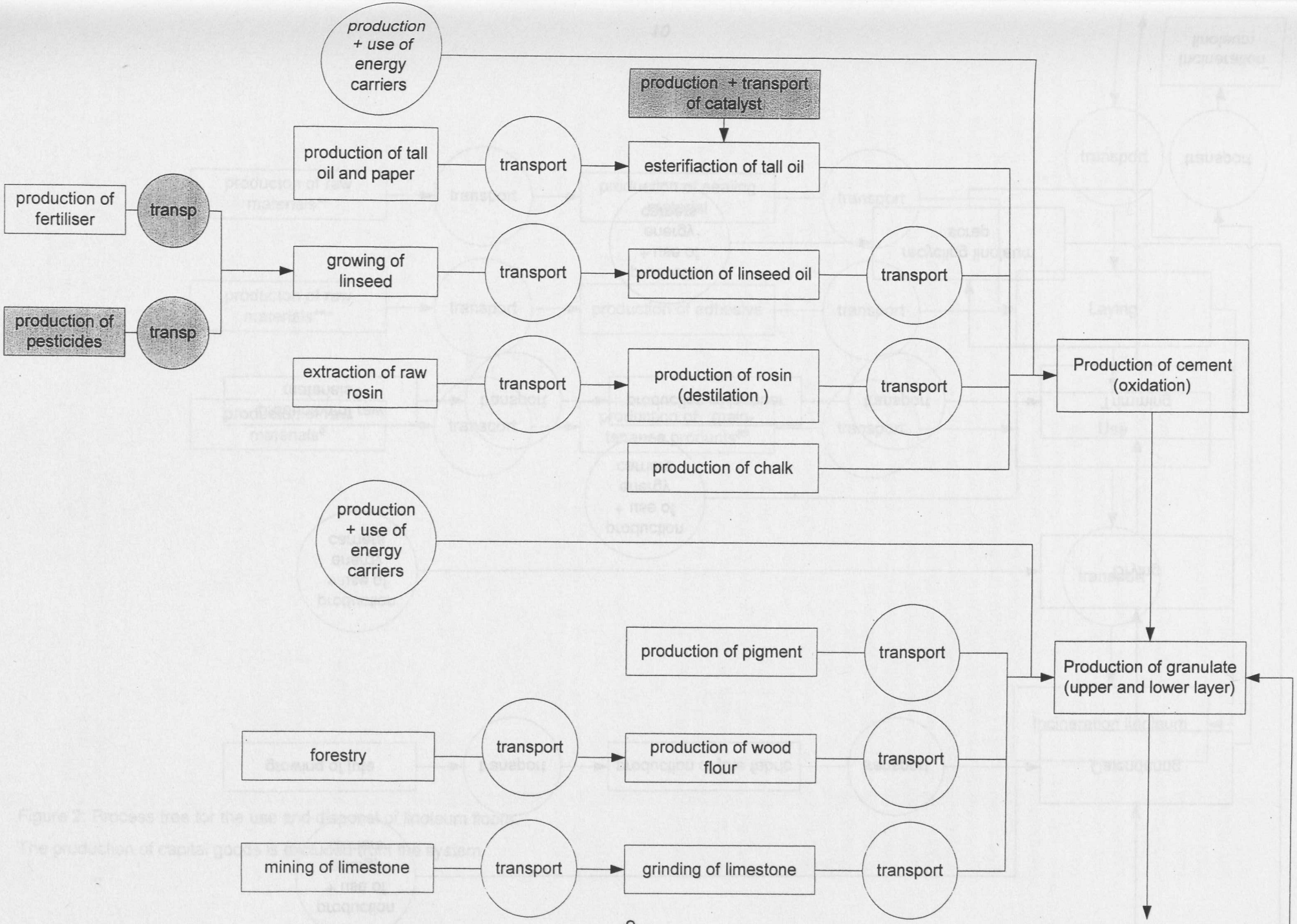
The system is not complete because capital goods are not included. All other relevant processes were included in the system. Processes for which no data was available and for which it was not possible to make a sound estime of the process data, were included in the system as "data gaps ". In

Figure 2 these are shown by a grey fill. From some processes, only part of the data could be gathered. These processes are marked with one or more asterisks. A description appears below the figure describing what is and what is not included for those processes. More detailed information may be found in appendix A.

4.2 System boundaries

In an ideal LCA situation one would be able to trace all streams up to the level of natural resources (with no human effort yet invested in the material)emissions without any further future human interventions. This, however, commonly gives rise to a problematic, infinite historical regression. Given this then, boundaries for the system must be established.

Three types of boundaries are distinguished between:
1. the product system and the environment,
2. included and disregarded processes,
3. the product system under investigation and other product systems.


production + use of energy carriers
production + transport of catalyst
production of tall oil and paper
transport
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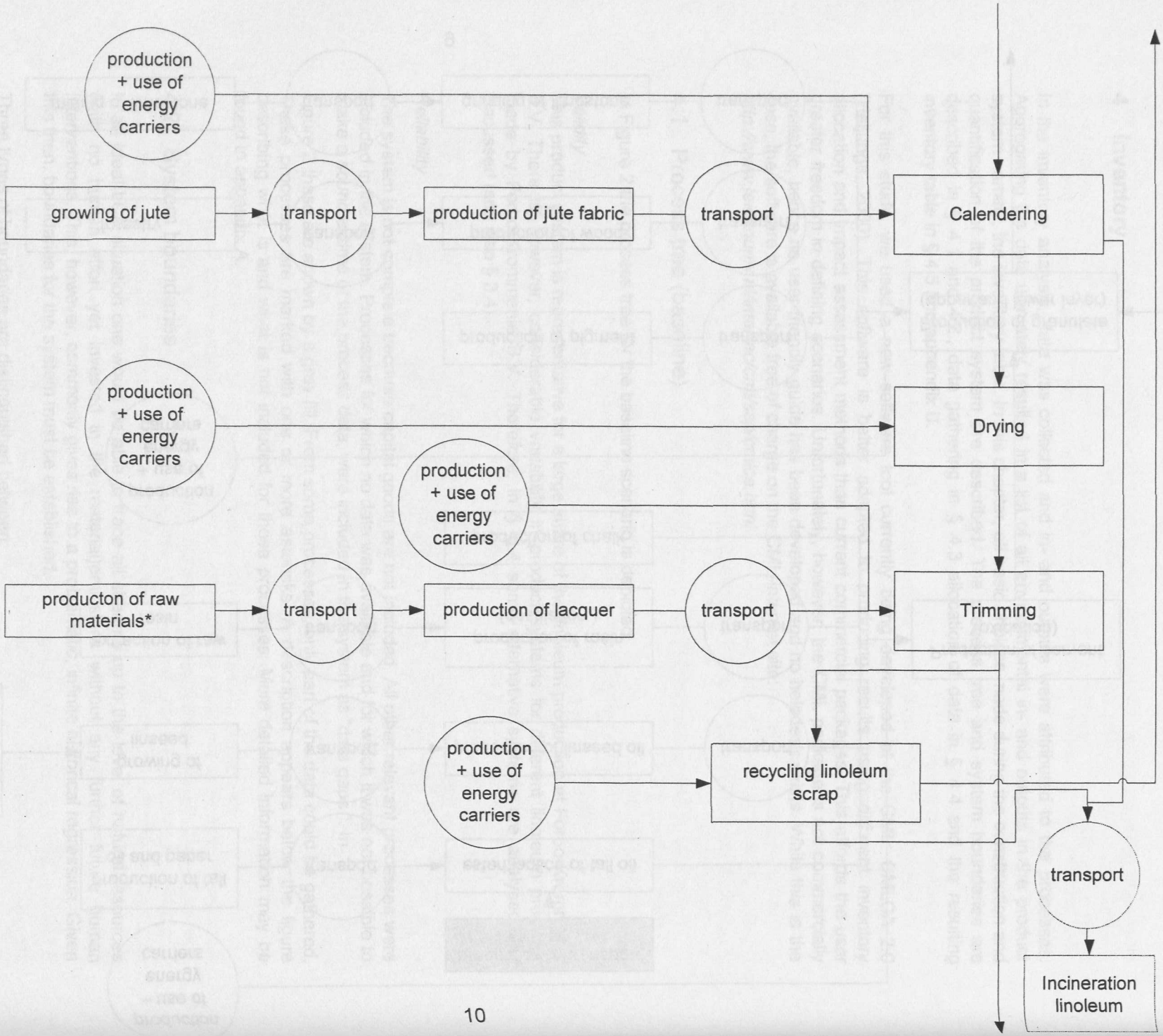
production of fertiliser
transp
growing of linseed
transport
production of linseed oil
transport
production of pesticides
transp
extraction of raw rosin
transport
production of rosin (destilation)
transport
Production of cement (oxidation)
production of chalk
production + use of energy carriers
production of pigment
transport
Production of granulate (upper and lower layer)
forestry
transport
production of wood flour
transport
mining of limestone
transport
grinding of limestone
transport


production + use of energy carriers
growing of jute
transport
production of jute fabric
transport
Calendering
production + use of energy carriers
Drying
production + use of energy carriers
producton of raw materials*
transport
production of lacquer
transport
Trimming
production + use of energy carriers
recycling linoleum scrap
transport
Incineration linoleum

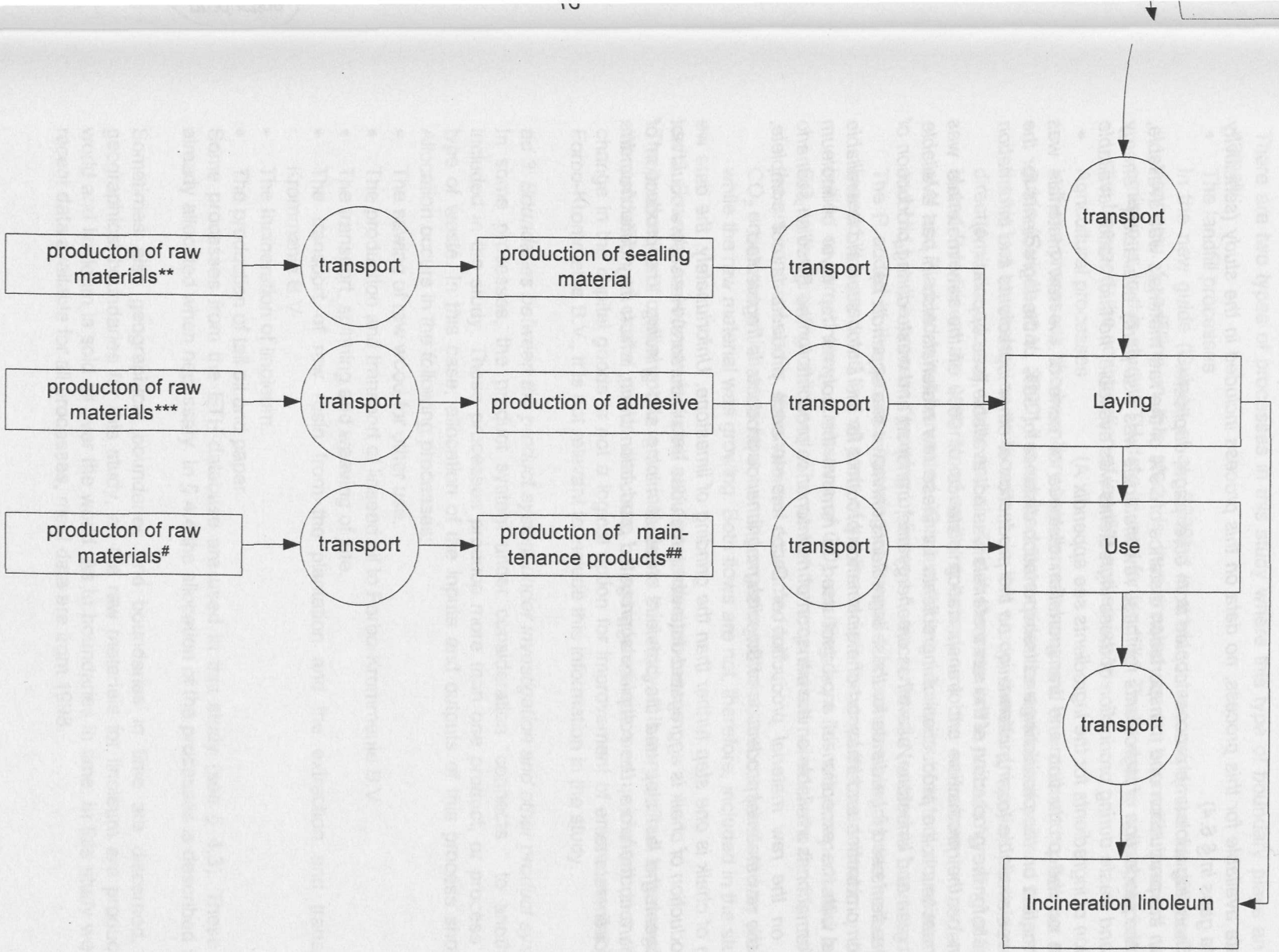


Figure 2: Process tree for the use and disposal of linoleum floors.

The production of capital goods is excluded from the system.

ad
Figure 2:
Grey fill: no data available for this process, no data on this process included in the study (sensitivity analysis on data gaps in § 6.4) .
Dash lines (incinerating linoleum): process copied from other page, duplicate.
**: information on the production and transportation distance of 96% of the raw materials was available, information on the production of ingredients for these raw materials was also partly available (= energy use, transport and waste during production of these ingredients was available, no information available on the production of ingredients for the ingredients see appendix A)*
***: Information on the production and transportation distance of none of the raw materials was available, information on the production and transportation distance of 50% of the ingredients for the raw materials was available (rosin), information on the production of other ingredients and information on energy use etc for the production of the raw materials was not available (see appendix A).*
****: information on the production and transportation distance of 98% of the raw materials was available, information on the production of ingredients for these raw materials also in part available (information on gum and limestone, as well as on energy use, transport and waste during production of some other ingredients and ingredients for these ingredients unknown see appendix A).*
#: information on production and transport of maintenance products for the Dutch scenario is available for all products with the exception of a product used to remove the polymer top layer of linoleum flooring. No information is available on the transport of maintenance products for the Swedish scenario
##:Information on the raw material production of Dutch maintenance products is not complete, information on the raw material production of Swedish maintenance products is fragmented.

The production of chalk is one step further than the grinding of limestone. Unfortunately, the data we have on the production of chalk is aggregated data which includes the precursors. Hence, we could not distinguish between the last step and the previous steps of mining and grinding. The production of chalk in this figure is, therefore, the complete aggregated production chain, which may differ from the data we used for limestone.

ad 1: Boundaries between product system and environment
There are two types of processes in this study where this type of boundary plays an important role, namely:

- The landfill processes
  In the new guide (Guinée *et al.*, 2000) it is advised to consider the landfill itself as part of the economy. Landfilling in this study is thus treated as an economic process with inputs and emissions. In this study ETH-data is used for landfills. These data is aggregated data and includes the transport, the construction of landfills and emissions.
- Agricultural processes
  In these processes, the boundary between economy and environment is often not clear. In the new guide (Guinée *et al.*, 2000) it is advised to consider the agricultural soil and the portion of the crop that is not harvested, as environment. In this study, therefore, applied pesticides are treated as direct emissions to soil, water and air. This is the case in the process "growing of linseed ". Added N and P fertilisers are understood as being emissions to the environment in as far as the amount of N and P added is not harvested. This results in an emission of N to soil and into the air (as N_2O and NH_3) in the process "growing of linseed ", since not all N added is harvested in the linseed. The P added in the process "growing of linseed " is compensated by the harvesting of P in the linseed. It is assumed that all parts of the linseed plant except the seed remain on the land and are buried or burned there. Emissions of CO_2 resulting from this are compensated by the uptake of CO_2 in the growing of linseed. The part of the crop that remains on the land is considered part of the environment and is, therefore, not accounted for[4].
  CO_2 emissions which arise from burning organic material, are compensated by the uptake of CO_2 while the raw material was growing. Both flows are not, therefore, included in the study.

ad 2: Boundaries between included and disregarded processes
The production of capital goods is not included in this study. It is very difficult to get a good estimate of the production of capital goods that may be associated with one unit of product (linoleum). As a change in the capital goods is not a logical option for improvement of environmental performance at Forbo-Krommenie B.V., it is not relevant to include this information in the study.

ad 3: Boundaries between the product system under investigation and other product systems
In some processes, the product system under consideration "connects " to another system not included in the study. These processes produce more than one product, or process more than one type of waste. In this case, allocation of the inputs and outputs of this process should take place. Allocation occurs in the following processes:

- The sawing of raw wood for other use.
- The production and transport of linseed oil to Forbo-Krommenie B.V.
- The transport, spinning and weaving of jute.
- The transport of raw rosin from the plantation and the extraction and transport to Forbo-Krommenie B.V
- The Incineration of linoleum.
- The production of tall oil and paper

Some processes from the ETH-database are used in this study (see § 4.3). These processes are already allocated when necessary. In § 4.4 the allocation of the processes is described in more detail.

Sometimes also geographical boundaries and boundaries in time are discerned. There are no geographical boundaries for this study, as the raw materials for linoleum are produced all over the world and linoleum is sold all over the world. As to boundaries in time: In this study we used the most recent data available for all processes, most data are from 1998.

[4] However, it is possible that the remainders of the linseed plant also be used commercially. suppliers of linseed oil indicate that commercially (both options occur). When linseed straw is used instead of buried/burned, the in-and outputs of the process "growing of linseed " should be allocated to the two products: straw and linseed. This would mean a lower contribution of this process to the linoleum production.

4.3 Data collection and data quality

All the economical and environmental in- and outputs are described and quantified per process. The validity (representativeness) and reliability (completeness, variability and uncertainty) of the process data are described in so far as this is possible. In the interpretation phase of the LCA, possible effects of the quality of data are analysed (see Wrisberg *et al.,* 1999).

Data was collected by Forbo-Krommenie B.V. and CML. A description is given below of the data collected, as well as of its validity and reliability.

4.3.1 Raw material production

General data for the production of raw materials

Data concerning production and transport (means and distance) of most raw materials used in the Forbo-Krommenie B.V. processes was provided by Forbo-Krommenie B.V.

Vvalidity

This data was provided by Forbo-Krommenie B.V. 's suppliers and should be, therefore, representative per definition for the processes concerned. Wood flour is supplied mainly by English and German suppliers, cork by Portuguese suppliers, (all cork is produced in Portugal), jute is supplied by Indian, Dutch and French suppliers(all jute is grown in India and Bangladesh), linseed oil is supplied by Dutch and German suppliers (all linseed is grown in Canada), gum rosin is supplied by Dutch and German suppliers(all raw rosin is produced in Indonesia).

Reliability

The data provided is not always complete. Figures on emissions resulting from the use of fossil fuels were often not provided. Therefore, we used aggregated ETH-data on the use of these fuels instead of data on the supply of these fuels. Data on some processes consists of rough estimates. Important assumptions are made for linseed: every year an insecticide and a pesticide are used on 20% of the linseed fields in the prescribed amount(based on personal communications from suppliers of linseed) 1% of the N applied evaporates as NH_3 and 1% as N_2O (based on Välimaa & Stadig, 1998). Data on some processes is lacking. The lacking data is mentioned in § 4.2 ad 2, and marked in the process tree. The variability may be considerable. Transportation distance in particular can vary widely because the transport is delivered by different suppliers. Data on the amount of product produced per unit of raw material varies less. We took average values for all data on raw materials where information from more than one supplier was available. Where possible, we used weighted averages based on the percentage of the raw material that Forbo-Krommenie B.V. bought from different suppliers. The uncertainty of this data is not known.

Pigments

The aggregated data on the production of TiO_2 used in the baseline study, and the yellow and red pigments used in the sensitivity analysis, are provided by PE Product Engineering, Germany (PE, 1999, pers. comm. K. Saur).

Validity and reliability

The validity and reliability of this data is unknown although it was more complete than the data provided by Forbo-Krommenie B.V 's suppliers . As this is aggregated data, all upstream processes such as energy use , production and the mining of Ti-ore etc. are included. Data on the transportation of the pigment to Forbo-Krommenie B.V. was based on the information provided by Forbo-Krommenie B.V.'s suppliers.

Fertilisers

The aggregated data on the production and transportation of fertilisers is taken from Chalmers (Davis & Haglund, 1999). An estimate of the percentage of N applied as fertiliser emitted into the air is from Välimaa & Stadig (1998).

Validity
This data is representative for the European situation, while linseed production takes place outside Europe, in Canada. While the fertilisers used in Canada are probably comparable to those used in Europe, transportation distances might differ.

Reliability
Concerning the completeness: it is not certain that the emissions resulting form the production of energy carriers are included in the data. We assumed that this was not the case and, therefore, added the ETH-data on supplied energy carriers (oil, energy etc.). We have no information as to the variability and uncertainty of the data.

Other products used during raw material production
The aggregated data on a few specific products (chalk, paper) was derived from the ETH database (ETH, 1996).

Validity
This data is mainly representative for European situations.

Reliability
There is no exact information on the reliability of this data, however, the list of emissions and inputs per process is very complete. ETH is high-status data and is often used in LCA-studies. However, one should keep in mind that this database is primary intended as an inventory of energy production systems. The processes closely related to the production of energy are more reliable than the more remote processes, such as production of materials.

4.3.2 *Processes which take place at Forbo-Krommenie B.V.*

General
Data on processes occurring at the production site in Assendelft is provided by Forbo-Krommenie B.V. The receipt of linoleum from the three alternative product systems is indicated in Table 1.

Table 1. The receipt of linoleum 2,5 mm (Dutch system) 2.0 mm (Swedish system) and cork-linoleum in g/m^2.

	2.5 mm	2.0 mm	cork
tall oil	398	316	380
gum rosin	76	55	3
linseed oil	588	452	842
wood flour	901	688	-
cork granulate	-	-	1329
limestone	592	441	143
pigment	101	76	263
jute	233	260	230
lacquer	12	12	10
TOTAL	2900	2300	3200

Validity
This data is per definition representative for the processes concerned.

Reliability
It is expected that the data is as complete as possible, because the authors of this study and Forbo-Krommenie B.V. had frequent contact. However, emissions resulting from the use of gasare probably not complete as only a limited list of substances was given. Therefore, we used aggregated ETH-data on the use of gas (including the production of this gas). The variability and uncertainty of the data given by Forbo-Krommenie B.V. is unknown.

VOC emissions from Forbo-Krommenie B.V.

Data on the total emissions of VOCs (not methane volatile organic compounds) from the production site are provided by Forbo-Krommenie B.V. Unfortunately, the individual VOC emissions at Forbo-Krommenie B.V. are not measured. Only the total VOC-emission is measured. Therefore, the emission of individual substances had to be estimated, based on data from Hauschild & Wenzel (1998) on VOC mixtures for solvent use. For other unspecified VOC (e.g. from ETH-processes) emissions, the VOC mixtures for stationary combustion from Hauschild and Wenzel (1998) are used.

Valididty

The data from Haschild & Wenzel (1998) is probably not very representative for the specific emissions from Forbo-Krommenie B.V.'s site.

Reliability

The completeness, variability and uncertainty of the data from Hauschild & Wenzel (1998) are unknown. However, the data seems very complete, and includes a list of great variety of individual VOCs .

4.3.3 Laying and use

Data on use and laying as well as on the products used during laying and use of the linoleum, is provided by Forbo-Krommenie B.V.

The maintenance sequences for the Dutch and Swedish systems are given in table 2.

Table 2. Maintenance sequences for the Dutch and Swedish system per 20 m^2 year (for linoleum with a life span of 20 years).

unit of operation	material used per m^2	Dutch system	Swedish system
		frequency in 20 years use	
first cleaning	0.16 l water	1	
	1.3e-3 l cleaner		
	0.02 l sealer		
dust wiping	0.005 wiping cloths	5200	240
spot cleaning	1.7e-4 l cleaner	5200	
	0.02 l water		
spot spraying	0.001 l spray	260	
stripping + resealing	0.02 l stripper	6	
	0.04 l sealer		
initial waxing	3e-3 l cleaner with wax		1
humid moping, wax	3e-5 l cleaner with wax		3120
humid mopping, detergent	3e-4 l cleaner		1040

Validity

Data on the laying and maintenance of linoleum is mainly provided by Forbo-Krommenie B.V. They are representative for laying and maintenance in public and commercial buildings.

Data on adhesives and maintenance products is provided by Forbo-Krommenie B.V.'s suppliers and should be, therefore, per definition representative for the processes concerned.

Reliability

Data on the production of laying and maintenance products is including emissions, material use and energy use. Information on the production and transportation distance of 100% of the raw materials used for sealing material is available, information on the production of ingredients for these raw materials is also available in part. Information on the production and transportation distance of 98% of

the raw materials used for adhesives is available, information on the production of ingredients for these raw materials is also available in part. Information on production and transport of maintenance products for the Dutch scenario is available for almost all products (except for a product used to remove the old seals of a linoleum floor). Information on the production and transport of maintenance products for the Swedish scenario is not complete. Information on the raw material production of Dutch maintenance products is not complete. Information on the raw material production of Swedish maintenance products is fragmented (see appendix A). No information is available on the variability and uncertainty of the data.

4.3.4 *Incineration of linoleum*

Data on the incineration of linoleum is from TNO and provided by Forbo-Krommenie B.V. (van Loo & de Koning, 1994). All linoleum waste from the calenders, the trimming department and final disposals is assumed to be incinerated. It is assumed that the waste that remains during laying goes to landfill. The CO_2 emissions during the incineration of linoleum are not included in the study. They are compensated by the uptake of CO_2 by the linseed and wood, which serve as the raw material for linoleum.

Validity and reliability

The data concerning which part of the linoleum is burned and which part is land filled is based on assumptions. Other assumptions are also possible. The data on the emissions and energy content wile incinerating linoleum is, per definition, representative for the processes concerned because the analysis and calculations carried out by TNO (well known Dutch independent research institute) are carried out on linoleum manufactured by Forbo-Krommenie B.V. The assumption made by Van Loo & De Coning that the efficiency of energy production while incinerating linoleum can be 75%, seems too high. In this study, we used a lower but still high value of 40%. However, this high value is not unrealistic when we look only at the marginal change in electricity production when adding a certain amount of linoleum to an already working waste incineration.

4.3.5 *Other processes (transport, energy, landfill)*

Data on transport, by truck, boat and train, production and use of energy carriers, and landfilling is derived from the ETH database (ETH, 1996).

Validity

Electricity:

Electricity data is very detailed in the ETH database. Given this, the electricity needed for those processes which take place on Forbo-Krommenie B.V.'s site, Dutch electricity production could be taken to be representative. For other electricity use, the European average was taken. This data is representative for the European situation but perhaps not for other countries.

Other energy carriers, transport and landfill:

Data on the use of other energy carriers, and transport is representative for European situations. Their representativeness for non-European countries (India, Indonesia, and Canada) is not known. This data is mostly representative for European situations. Emissions from transport by truck in Asian countries such as India and Indonesia are possibly higher because the trucks that are used are older and the fuel used might be different.

Landfill:

For all types of waste in this study, data for landfill sites from the ETH-database are used. These are aggregated data from landfill sites for inert waste, hazardous waste, chemical waste and radioactive waste. The data include the infrastructure and the long term emissions from the different types of landfill sites. These emissions are probably not very representative for emissions resulting from linoleum, or other specific wastes. However, this was the only date available.

Reliability

Landfill:

All the data we used came from the ETH-database and is aggregated data, meaning that all processes are followed from the cradle. This means that, in the case of landfill, also the infrastructure (building of the landfill site etc.) necessary for landfilling is included. Also, long-term emissions from landfill are included.

Energy and transportation:

This cradle approach was also applied in the case of transportation processes and energy carriers. There is no exact information on the reliability of data although the list of emissions and inputs per process is very complete. ETH is high-status data and often used in LCA-studies. However, one should keep in mind that this database was created primarily as an inventory of energy production systems. The processes closely related to the production of energy are more reliable than more remote processes, such as landfilling and transport.

4.3.6 Conclusions on data quality

Most data on the production of raw materials is representative for the specific processes, but reliability is not known. They differ largely in completeness. Data on the processes which take place at Forbo-Krommenie B.V. is representative and probably more reliable (because more complete) than that on the production of raw materials. Data on the composition of the VOC emissions is lacking. The data on the incineration of linoleum is representative and seems complete. However, the assumption that electricity is produced with 40% efficiency might be somewhat high. The ETH data is probably representative and reliable for the energy data. The data on transportation processes, landfill processes and other processes is probably less representative and reliable.

In § 6.4 sensitivity analysis in the form of scenarios is carried out to study the effects of changes in data for processes with a high influence on the results for which the data is less reliable.

4.3.7 Data gaps

No process data was available for the following processes:

- The production and transport of pesticides (the use and emission of pesticides is included).
- The production and transport of some raw materials needed for maintenance products (additives, thickeners, solvents) and virtually all of the ingredients for those materials.
- The production and transport of some raw materials needed for the production of materials used during laying (adhesives and material used to seal the seams of professionally used linoleum floors).
- The production and transport of a catalyst needed in the process "esterification of tall oil ".
- The production and transport of the fertiliser S needed in the process "growing of linseed ".
- The production and transport of the maintenance product used for removing the top layer of linoleum floor covering needed in the process "the use and maintenance of 1m2 linoleum for 20 years ".

In § 0 a sensitivity analysis is carried out to study the effects of these datagaps.

4.4 Multiple processes (allocation)

There are three kinds of multiple processes, namely:

- Co-production: simultaneous production of economically valuable products, goods or services.
- Combined waste disposal: simultaneous processing of more than one stream of waste, with a negative value .
- Open-loop recycling: processing a waste stream of one production process so that it can be reused in another.

Furthermore, a combination of these multiple processes may be found, such as the production of electricity (valuable product) through a waste incinerator.

For these multiple processes, a solution has to be found by either avoiding multiple processes by dividing the process into sub-processes or by enlarging the system under investigation so that the co-products are also involved, or by allocation (dividing the in- and outputs of the processes over the products). According to ISO 14041 (1998), the following steps have to be taken when multiple processes occur:

Step 1
If it is possible, one should try to avoid allocation by dividing the multiple processes into sub-processes or by enlarging the system under investigation so that the co-products are also included.

Step 2
If it is not possible to do so, an allocation based upon causal physical relations is preferred; e.g. the amount of mercury (Hg) in the emission of a waste combustion laying may be attributed to every product containing mercury to be burned according to its content.

Step 3
If it is not possible to make an assessment based on a causal physical relationship, then other relations should be used such as an allocation proportional to the economical value of the products.

In § 4.2 ad 3 the multiple processes for the product system under investigation have been mentioned. In this study, we followed the three ISO 14041 steps as closely as possible. In only one case an ISO step-one procedure (substitution) could be applied (see ISO 14041, 1998). Expansion of function was not applied because it could result in a very large and complex system, producing many products. It would then be difficult to identify possible improvement options for Forbo-Krommenie B.V. ISO step-two procedures (allocation based on causal relations) were not possible (see ISO 14041, 1998). Most processes that had to be allocated involved co-production. In these cases, allocation based on causal physical relations is almost never possible. In most cases, therefore, an ISO step-three procedure was followed (see ISO 14041, 1998). Where possible, we used the economic value of the products because we feel the trigger for a production process will be the product with the highest economic value. Where this was not possible, we carried out a mass-based allocation (which is less desirable because the product with the highest mass is not automatically the one which triggers the process) or a proxy.

Allocation occurred for the following processes:

- The sawing of raw wood for other uses.
  - > This process produces wood remainders and production wood.
  - > In this case, the inputs and outputs of the process are partitioned between the two products, based on their economic value (step 3 procedure). The remainders form 45% of the total mass produced. The value of production wood is a factor 4.5 higher than that of the wood remainders. Therefore, 15% of the total value produced is from wood remainders.
- The production and transport of linseed oil to Forbo-Krommenie B.V.
  - > This process produces linseed oil and linseed expellers (used as cattle fodder) .
  - > In this case, the inputs and outputs of the process are partitioned between the two products based on economic value (step 3 procedure). The value of the produced linseed expellers is not negligible. It is 43% of the total value produced.
- The transport, spinning and weaving of jute.
  - > This process produces jute and re-usable jute waste.
  - > In this case, all in- and outputs are allocated to the jute (step 3 procedure) because the value of the amount of jute-waste produced is almost negligible compared to the jute.
- The transport raw rosin from the plantation and the extraction and transport to Forbo-Krommenie B.V.
  - > This process produces gum rosin and turpentine.
  - > In this case, the inputs and outputs of the process are partitioned between the two products based on economic value (step 3 procedure). The value of the produced gum rosin is 91 % of the total value produced.

- The production of tall oil and paper[5].
  - > This process produces tall oil and paper
  - > The inputs and outputs of the process are partitioned between the two products based on economic value (step 3 procedure). The value of the amount of tall oil produced is only 1% of the total produced value.
- The incineration of linoleum.
  - > This process treats waste and produces energy.
  - > The produced energy has to be allocated. This is done by seeing the energy as a substitute for another process, that being the production of electricity in the Netherlands (ETH-process for Dutch average electricity), with an efficiency of 0.4 (step 1 procedure).

Conclusion for six processes the in- and outputs had to be allocated, namely

- The sawing of raw wood for other use.
- The production and transport of linseed oil to Forbo-Krommenie B.V.
- The transport, spinning and weaving of jute.
- The transport of raw rosin from the plantation and the extraction and transport to Forbo-Krommenie B.V.
- The production of tall oil and paper .
- The incineration of linoleum.

In five cases, economic allocation was applied and in one case -the incineration of linoleum- a substitution has taken place.

4.5 The inventory table of the baseline product system

Data collection has resulted in a database with processes and accompanying in- and outputs. These processes are coupled based on the functional unit. An inventory table is then the result of aggregation and of scaling all data for the process tree.

In this LCA study, calculations were made using CML software. The CML package uses the matrix method to calculate the inventory table which belongs to the functional unit (ILV,1991; Heijungs, 1992).

The inventory table of the baseline product system and the two alternative equivalent systems is given in appendix B.

[5] In this study we did not separate the production of pulp and paper. Often these processes take place in the same factory. Therefore, the in- and-outputs in the production of paper and tall oil are allocated over the products tall-oil and paper. If pulp-production were seen as a separate process, the allocation should take place over the products tall oil and pulp. This would mean a different allocation as the economic value of the pulp is probably much lower than that of the resulting paper leading to a higher contribution of this process to the linoleum production.

5 Impact assessment

In the impact assessment, the potential effects of the in- and outputs are identified and characterised. For the baseline and most scenarios, the impact categories as well as characterisation and normalisation are based on Guinée *et al.* (2000). This is briefly described in § 5.1 to 5.4.
There are, however, other impact assessment approaches which are also applied to the baseline system as sensitivity analysis scenarios. These methods are briefly described in § 5.5. Not all of these methods are in accordance with ISO standards. Methods and scenarios that do not follow the ISO standards are described in separate textboxes, so that any third party reading the report can recognise them as such. When comparing the different impact assessment methods, the approach of Guinée *et al.* (2000) is referred to as CML-2000. In § 5.6 the environmental profile of the baseline system is described and in § 5.7 the inputs and outputs not assigned to an impact category are listed.

5.1 Selection of impact categories

It was first established which of the environmental problems and impact categories are taken into account. In this study, the impact categories are based on Guinée *et al* (2000), as presented in Table 3. Depending on the expected emissions and extractions taking place during the life cycle of linoleum floor coverings, the relevant categories were selected from this list.

Table 3. Default list of impact categories

Impact category	Spatial scope
A. Input related categories	
Extraction of abiotic resources	global
Extraction of biotic resources	global
Land use	
subcategory: Increase of land competition	local
subcategory: Degradation of life support functions	Cont/reg/local
subcategory: Degradation of biodiversity	Cont/reg/local
B. Output related categories	
Climate change	Global
Depletion of the ozone ayer	Global
Human toxicity	Glob/cont/reg/loc
Eco-toxicity	
subcategory: aquatic eco-toxicity fresh water	Glob/cont/reg/loc
subcategory: aquatic eco-toxicity sea water	Glob/cont/reg/loc
subcategory: terrestrial eco-toxicity	Glob/cont/reg/loc
subcategory: sediment eco-toxicity fresh water	Glob/cont/reg/loc
subcategory: sediment eco-toxicity sea water	Glob/cont/reg/loc
Photo-oxidant formation	Cont/reg/loc
Acidification	Cont/reg/loc
Eutrophication	Cont/reg/loc
Odour	Local
Noise	Local
Radiation	Regional/local
Casualties	Local
Waste heat	Local

In Table 4 the impact categories considered in this study are listed. The characterisation factors for these 11 impact categories are listed in appendix C. Below, these categories and the corresponding indicators are explained briefly. For a more detailed description and justification of the chosen

indicators we refer to Guinée *et al.* (2000), in which the indicators are described according to ISO standards.

Table 4. Impact categories, methods and normalisation data for the impact assessment method according to Guinée *et al.* (2000)

Impact category	characterisation method	unit	Normalisation data
A. INPUT RELATED CATEGORIES			
Extraction of abiotic resources	Guinée (1995)	kg antimony eq.	2.20E12
B. Output related categories			
Climate change	Houghton et al (1994 & 1995)	kg CO_2 eq.	2.27E13
Depletion of the ozone layer	WMO (1991, 1995, 1998)	kg CFC-11 eq.	3.61E8
Human toxicity	Huijbregts (1999a)	kg 1,4-dichloro-benzene eq.	1.45E13
Eco-toxicity			
subcategory: aquatic eco-toxicity[6]	Huijbregts (1999a)	kg 1,4-dichloro-benzene eq.	7.61E13
subcategory: terrestrial eco-toxicity	Huijbregts (1999a)	kg 1,4-dichloro-benzene eq..	1.13E11
subcategory: sediment eco-toxicity[6]	Huijbregts (1999a)	kg 1,4-dichloro-benzene eq.	9.19E12
Photo-oxidant formation	Derwent *et al.* (1998) and Jenkin & Hayman (1999)	kg ethylene eq.	6.26E9
Acidification	Huijbregts (1999b)	kg SO_2 eq.	6.41e10
Eutrophication	Heijungs *et al.* (1992)	kg PO_4 eq.	1.08e11
Odour	Heijungs *et al.* (1992)	m^3	4.96e17

Extraction of abiotic resources

Problem definition:

The decrease of abiotic resources, the "dead " material resources such as iron ore, fossil fuels etc. that occur as inflows in LCA.

Indicator:

The method based on the current reserves and the rate of deaccumulation of these reserves developed by Guinée (1995).

Climate change

Problem definition:

The effect of emissions as a result of human activities on the radiative forcing (=heat radiation absorption) of the atmosphere. This, in turn, can result in adverse effects on ecosystem health, human health and material welfare. Most of these emissions enhance the radiative forcing, resulting in a rise in the earth's temperature. This is popularly referred to as the "Greenhouse effect ".

Indicator:

The Global Warming Potentials (GWPs) of the IPCC. The GWP of a substance is the ratio between the contribution to the heat radiation absorption resulting from the instantaneous release of 1 kg of a greenhouse gas and an equal emission of carbon dioxide (CO_2) integrated over time (Houghton *et al.*, 1994 & 1995).

[6] In a recent update of Huibregts (1999a) that became available during the writing of this study, these subcategories are split into two fresh water and salt water. For this study we decided to use the old list of only three subcategories because using the new list would imply changing all water-emission figures in the database, which was not possible in the time left. We did use the new characterisation factors, but we added the characterisation results for fresh water and marine systems weighted in the way the old factors were weighted, based on the respective volumes of salt water and fresh water for the aquatic factors and weight of the salt water and fresh water sediment. This basically meant that the salt water compartments prevailed, because of their high factors and large volume/weight.

Depletion of the ozone layer

Problem definition:

The problem of the breakdown of stratospheric ozone as a result of human emissions. Because of the thinning of the ozone layer, a larger fraction of the sun's UV-B radiation reaches the earth's surface. This can have harmful effects on human health, animal heath, terrestrial and aquatic ecosystems, biochemical cycles, as well as on materials.

Indicator:

The Ozone Depletion Potentials of the WMO. The ODP is defined as the ratio between ozone breakdown in a state of equilibrium due to annual emissions (flux in $kg \cdot yr^{-1}$) of a quantity of a substance released into the atmosphere and the breakdown of ozone in a state of equilibrium due to an equal quantity of CFC-11 (WMO, 1991, 1995, 1998).

Human Toxicity:

Problem definition:

This impact category contains the effects of toxic substances in the environment on humans.

Indicator:

The characterisation factors from Huijbregts (1999a) based on modelling the fate of toxic substances, along with exposure and risk for humans with the fate model USES-LCA.

Ecotoxicity

Problem definition:

Eco-toxicological impacts are the effects of toxic substances on aquatic, terrestrial and sediment ecosystems.

Indicator:

The characterisation factors from Huijbregts (1999a) based on modelling the fate of toxic substances, along with risk for ecosystems with the fate model USES-LCA.

Photo-oxidant formation

Problem definition:

Photo-oxidant formation is the formation of reactive substances (mainly ozone), which are injurious to human health and ecosystems, and which may damage crops.

Indicator:

The Photochemical Ozone Creation Potentials (POCPs). A POCP of a VOC is the ratio between the change in ozone concentration due to a change in the emission of that VOC and the change in ozone concentration due to a change in the emission of ethylene (Derwent *et al.*, 1998 andJenkin & Hayman, 1999).

Acidification

Problem definition:

Acidifying substances cause a large number of diverse impacts on soil, groundwater, surface water, organisms, ecosystems and materials (buildings). Examples are fish dying in Scandinavian lakes, forest decline and the crumbling of building materials.

Indicator:

The average European factors from Huijbregts (1999b). This method accounts for fate and regional sensitivity from ecosystems.

Eutrophication

Problem definition:

Eutrophication includes all impacts due to a too high level of macro-nutrients in the environment. Nitrogen (N) and phosphorus (P) are the most important eutrophicating elements. This enrichment may cause an undesirable shift in the composition of a species and an increased production of biomass within aquatic and terrestrial ecosystems. In addition, high nutrient concentrations can also make surface waters unacceptable for drinking water supply. An increased production of biomass in aquatic ecosystems may lead to low oxygen concentrations because the decomposition of this biomass needs oxygen (measured as BOD). This is also placed in the same category.

Indicator:
The factors from Heijungs *et al.* (1992) based on the contribution of N and P to the average composition of aquatic organisms: $C_{106}H_{263}O_{110}N_{16}P$, which is assumed to be representative of the average composition of biomass.

Odour
Problem definition:
Odour is a problem when a given concentration of odorous substances is experienced as unpleasant. Whether or not an odour will be experienced as stench will depend on the individual exposed to it. However, above a certain emission level all individuals will experience this odour as stench.
Indicator:
The factors in Heijungs *et al.* (1992), based on Odour Threshold Values (OTV). The OTV of a substance is the concentration of a given substance, under defined standard conditions, at which 50% of a representative sample of the population can just detect the difference between a sample of air mixed with that substance and a sample of clean air.

Other impact categories
For most of the other categories mentioned in Table 3 the characterisation methods are not yet operational (extraction of biotic resources, land use, noise and radiation). The category casualties, noise, and waste heat are not taken into account in most LCA-studies, unless there is reason to believe that they are especially important for the study. This is not the case for the present study. These categories are very local and the results are difficult to interpret in relation to the other categories. Moreover, for these categories there is no normalisation data, so it is impossible to compare these categories to the others, because they are not in the same dimensions.

The reasoning above also holds for the impact category "odour ". However, "odour " is an important category for Forbo-Krommenie B.V. because of the typical linoleum "odour ". Therefore "odour " was included in the study. However the emissions of the VOCs which give rise to the "odour " at Forbo-Krommenie B.V. are not known individually. It would be necessary to have this information for each individual case in order to properly include this category in an LCA. In the present case we had to make an estimate, which makes the results for this category somewhat more uncertain than those for the other categories. In § 6.4.4 we carried out a sensitivity analysis to study the effects of this estimated VOC-composition on "odour ".

5.2 Classification and characterisation

In this step, the in- and outputs are attributed to all relevant impact categories and the contribution to the different impact categories iscalculated based on the characterisation factors/methods chosen. All in- and outputs are taken to contribute to these categories to their potential full amount, which means that we did not account for the possible occurence of parallel impacts (= the contribution of the substance to one impact category diminishes the contribution to another) to occur. The characterisation factors used in this study are listed in appendix C, based on the preferred methods listed in Guinée *et al.* (2000). The results are aggregated per impact category. This then yields in one indicator result per impact category.

5.3 Normalisation

In this step, the indicator result per impact category is given as a fraction of the reference contribution of a certain region or person, over a particular interval of time, to this impact category. Among these reference contributions (normalisation data) one may find the annual contribution to the impact categories under consideration per the entire world, or the Netherlands, or a world citizen. The normalisation step makes it possible to compare the contributions of the different impact categories, since they are now in the same dimensions: e.g. a fraction of the annual worldwide (or Dutch) contribution to this category. As a step towards grouping and weighting, normalisation often is indispensable.

In this study, the results are normalised based on the contribution of the world in 1989 to abiotic depletion and the contribution of the world in 1992/1993 to the output-related categories. The last figures are based on Dutch emissions of pesticides in 1992 and other substances in 1993, extrapolated to the world level. This is the most recent normalisation data available (source: Blonk *et al.*, 1997). Normalisation data is given in Table 4.

5.4 Grouping and weighting

Following normalisation, the results per impact category may be grouped or even weighted.

Grouping means that the categories are being formed, sorted and, if desired, classified. One might, for example think of classifications based upon the spatial scale of a certain environmental problem (local, regional, global), or of a classification based on a scale of relative importance. In this way, results are presented in an orderly fashion.

Weighting on the other hand, goes somewhat further. The results for a certain category are multiplied by a weighting factor. Such a factor is based on the relative importance of the particular impact category. This makes it possible to compare different categories and even add them up to get one one final LCA-result. The weighting factors may be based on different approaches. Guinée *et al* (2000) recommend basing these weighting factors on some form of panel method. A number of methods are available based upon the 'panel-method' through which a representative panel attributes weighting factors to the different environmental problems. However, these methods only concentrate on a part of the effect categories.

ISO 14042 (1999) does not permit weighting in cases where the results of an LCA will be used for a comparative assertion, that is, comparison of products for which the results will be used externally. Yet while this is the case for weighting, grouping is allowed in comparative assertion. Unfortunately no practical methods for grouping are yet known to the authors of this study.

Because no complete weighting set covering all relevant impact categories is available at the present time, we did not carry out a weighting for the three equivalent alternatives studied. However in order to compare the results of the method described by Guinée *et al.* (2000), which will, for convenience sake, be referred to as the CML 2000 with methods which combine impact assessment and weighting in one factor, we had to apply a weighting to the CML-2000 results (see further § 5.5). We chose to weight all impact categories equally with a factor 1 with the exception of the ecotoxicological impact categories which are weighted together as one (so that each of the three ecotoxicological categories was weighted with a factor 1/3).

5.5 Other impact assessment methods

To check to what extent the results of the study are influenced by the method of impact assessment that is used, 5 different impact assessment methods were compared to the method used in this study in the scenario analysis

- The Ecoindicator 95 (Goedkoop, 1995)[7]
- The ExternE method (EC, 1995)
- The EPS system (Steen, 1993; Steen 1996)[7]

Impact assessment method not following the ISO standards:

- The Ecoscarcity method, two versions (Ahbe et al, 1990; Braunschweig et al, 1994)

[7] Recently, a new version of the ecoindicator (the ecoindicator 99) and EPS were published. However, these methods were not yet available at the moment that the database CMLCA was being set up.

These methods are described briefly below. The method used in this study is referred to, for convenience, as the CML 2000 method. For a more extended description we refer the reader to the literature cited.

In the Ecoindicator 95 (Goedkoop, 1995), the impact categories are more or less similar to those in the CML 2000 method. The main difference is that, in the characterisation phase, no inter-effect weighting takes place for toxic substances (metals, pesticides and carcinogenic substances are treated separately). They are weighted against each other using a distance-to-target method. The targets are based upon a *defined* no-effect level, assumed at safeguard subject level.

In the ExternE method (ExternE, 1995) or the Impact Pathway Analysis, the damage of an emission is calculated using fate models and exposure–damage functions. In principle, the damages are valuated on the basis of willingness-to-pay. Although the damages could probability be calculated and presented separately from the valuation step, this is seldom done. Mostly, one set of factors is applied directly to the emission and extraction data, which is not in accordance with ISO standards.

The EPS (Steen, 1993; Steen, 1996) method is a valuation method based on safeguard subjects and a valuation based on willingness-to-pay. Although the contribution to the safeguard subjects could be calculated and presented separately from the valuation step, this is seldom done. Moreover the list of safeguard subjects is rather limited. Mostly, one set of factors is applied directly to the emission and extraction data, which is not in accordance with ISO standards. The method and the derivation of factors are not transparent.

Impact assessment methods which do not follow the ISO standards:
In the Ecoscarcity method (Ahbe et al. 1990; Braunschweig et al. 1994; Baumann, 1992) interventions are weighted against each other directly at the level of emissions and extractions, using a distance-to-target method based on (Swiss or Norwegian) policy targets. All goals are considered equally important. One important drawback to the method is its dependence on the goals in time and country.

5.6 Environmental profile of the baseline system

In Table 5 the results of the characterisation and normalisation phase are shown.

Table 5. Environmental profile of the baseline system

categories	characterisation results		normalisation results		
Depletion of abiotic resources	1.12E+03	kg antimony eq.	5.09E-10	yr.	
Photochemical oxidant formation	1.06E+01	kg ethylene eq.	1.69E-09	yr.	
Depletion of the ozone layer	2.06E-02*	kg CFC-11 eq.	5.69E-11*	yr.	
Global warming	1.72E+04	kg CO2 eq.	7.58E-10	yr.	
Human toxicity	8.30E+03	kg 1,4-dichlorobenzene eq.	5.71E-10	yr.	
Aquatic ecotoxicity	8.40E+05	kg 1,4-dichlorobenzene eq.	1.10E-08	yr.	** 3.13E-8
Sediment ecotoxicity	7.38E+05	kg 1,4-dichlorobenzene eq.	8.07E-08	yr.	
Terrestrial ecotoxicity	2.36E+02	kg 1,4-dichlorobenzene eq.	2.09E-09	yr.	
Acidification	8.44E+01	kg SO2 eq.	1.32E-09	yr.	
Eutrophication	1.29E+01	kg PO4- eq.	1.19E-10	yr.	
Odour	1.59E+08	m3	3.20E-10	yr.	

Ex = $\cdot 10^{x}$

*: These numbers would be 8% higher if the leak of HCFC-22 at the calenders at Forbo-Krommenie B.V. in 1998 were included. However, this leak is regarded in this study as an incident.

**: average of the results for the three ecotoxicity subcategories

5.7 Inputs and outputs not assigned to an impact category

In total 264 inputs/outputs are not assigned to an impact category. These are listed in appendix D. These are mainly from the ETH database. A large share (132 emissions) of the emissions are radioactive emissions. Since the impact category "radiation " is not included in this study (because no consensus has yet been reached on which impact assessment method to use for this category), these radioactive emissions could not be included in the impact assessment results. Also, some inputs are also not assigned to an impact category. The input of land is not included, because a method for the impact category "land-use " is still in development. For other inputs no characterisation factors have as yet been developed.

6 Interpretation

In the interpretation, the results of the life cycle inventory and the life cycle impact assessment (LCIA), are summarised, analysed and discussed as a basis for conclusions, recommendations and decision making, in accordance with the goal and scope.
In ISO document 14043 (1998) it is proposed that interpretation be carried out in three steps:

- Identification of the significant issues.
- Evaluation.
- Conclusions, recommendations and reporting.

These steps were followed in the present study on linoleum floors. The first two steps are followed in a recursive process. Conclusions are based on the combined results of the two preceding steps.

The aim of the identification of significant issues is to get answers to the questions defined in the goal and scope of the study. In this study, two types of analysis were carried out:

- Contribution analysis: Significant contributions to the total result are mapped by expressing, for example, the contribution of substances, processes, life cycle stages and/or impact categories in % of the total results. The results of the contribution analysis for the baseline system are reported in § 6.1.
- Anomaly Assessment: On the basis of experience, for example, unusual or remarkable deviations from expected or normal results are determined. This is a method of checking for possible errors. These errors can then be repaired by adjusting the "incorrect " input data or model choices etc. Unusual results remaining at the end of the study (ergo, which are not the result of a repairable error) which cannot be explained are reported.

After the presentation and analysis of the results for the baseline system in § 6.1, the reliability and validity of the data is further checked in the evaluation which is described in the following sections. "The objectives of the evaluation are to establish and enhance the confidence in and the reliability of the result of the study " (ISO 14043, 1998). The ISO 14043 guidelines are not yet worked out in detail. ISO mentions a completeness check, a sensitivity check, a consistency check, an uncertainty analysis and an assessment of data quality as elements of the evaluation. Van den Berg *et al.* (1998) give a framework for quality assessment in LCA. They distinguish between validity and reliability of input (process) data and models. Validity refers to representativeness, consistency, relevancy, as well as to whether or not data and models match the scope of the study. Reliability refers to reproducibility, uncertainty, completeness, etc. The validity and reliability of the product system, data and methods is considered throughout the entire study (see, for example, the description of the product system, process data and allocation methods in § 4.1 to 4.4 and the consequences of data quality in § 6.1.4), but conclusions on the effects of data quality can only be drawn after such an evaluation.

In § 6.2 a first validity check of the total results for the baseline system is carried out by comparing the results of this study with results from other studies on linoleum floor coverings. In § 6.3 and § 6.4 the reliability of product system, data and methods is further checked through various forms of sensitivity analysis. In § 6.3 a perturbation analysis is carried out. In this analysis, the influence of small variations on the results in each individual economic and environmental flow is analysed. The result can be used to answer the question for which flows the result is the most sensitive. These are the flows for which the ratio between change in result and change in flow are highest. In § 6.4 the sensitivity of product system, data and methods is checked by means of different scenarios. Data quality is one of the reasons for carrying out some scenarios. Finally in § 0. the consequences of the datagaps (completeness check) are evaluated.

Conclusions and recommendations are treated in chapter 7.

6.1 Contribution analysis

In the contribution analysis, the contribution of the different stages in the production chain, processes, emissions and extractions is analysed. This analysis provides insight into the most important stages, processes and flows contributing to a certain impact category. This insight may be used in several ways. First, the knowledge may be combined with the knowledge on data quality. Clearly, the most important stages, processes and flows should be based on valid and reliable data. Important processes or flows that are based on low quality data might be analysed further in a sensitivity analysis. Second, the processes that contribute much to the impact categories are the first processes to focus on, when looking for opportunities for improvement.

6.1.1 Impact categories

In the last column of Table 5, the characterisation and normalisation results are presented for all categories. The one result for ecotoxicity is the average for all 3 ecotoxicity categories. The result for ecotoxicity is very high, approximately a factor 20 higher than the result for the next "important " categories namely, acidification and oxidant formation. In most weighting methods, the weighting factors differ no more than a factor 10. Therefore, aquatic ecotoxicity is probably the most important impact category when a combined result would be calculated based on some sort of weighting. This is not done here as no encompassing weighting method is available and ISO does not permit weighting for comparative assertion.

The result for "odour " should be considered with some care, as the emissions of VOC from Forbo-Krommenie B.V. were not specified. The total amount of VOC was known, but not the individual substances. To calculate the contribution of the VOC-emission to the different categories, the individual substances in this VOC-emission had to be known. These are estimated based on solvent use (source: Hauschild & Wenzel,1998). However, it is not known if this mixture of individual VOC is representative for Forbo-Krommenie B.V.

6.1.2 Stages

In Figure 3, the contribution of the different life cycle stages to the category results is presented. The total of all positive contributions is set at 100%.

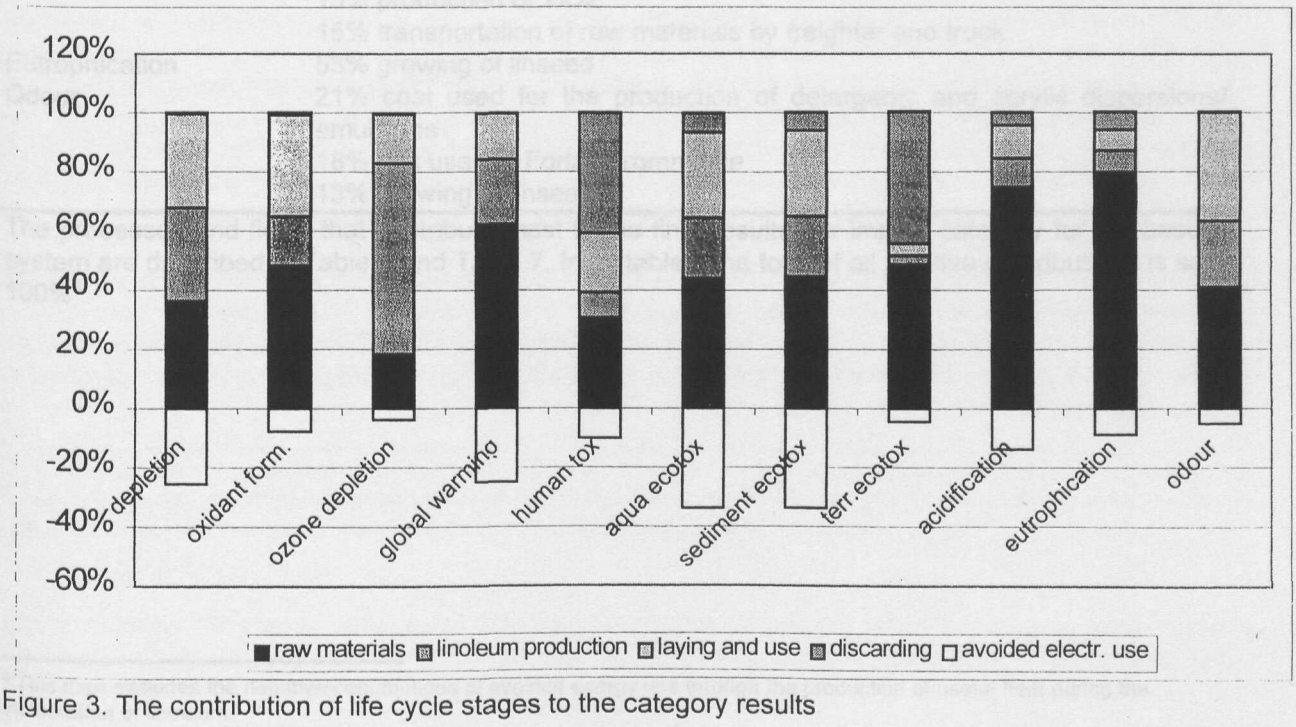


Figure 3. The contribution of life cycle stages to the category results

- The stage "raw materials " includes all of the processes which take place for the production of raw materials (including transport) needed for the production of linoleum. These are all inputs of Forbo-Krommenie B.V. (materials and half-products), with the exception of energy carriers.
- The stage "linoleum production " includes all of the processes taking place at Forbo-Krommenie B.V., including processes such as steam production and seaving of cork (cork-linoleum only).
- The stage "laying and use " includes all of the processes which take place during the laying and use of the floor including transport from Forbo-Krommenie B.V. and maintenance of the floor.
- The stage "disposal " includes transport to the waste incinerator as well as the incineration of linoleum.

It is apparent that the production of raw materials is the main contributor for most categories. Exceptions to this are the category "depletion of the ozone layer ", where linoleum production is the main contributing stage (64%) and the category "human toxicity ", where the contribution of the disposal stage is the main contributing stage (41%). For abiotic depletion, the contribution of raw materials, linoleum production, laying and use is almost equal (resp. 36%, 32% and 32%) while for "odour ", the contribution of the laying and use stages almost equals that of the raw materials stage (41% resp. 37%).

The contribution of the disposal phase is negative for most impact categories, except for human toxicity and terrestrial ecotoxicity. This is due to the "avoided emissions ", caused by the production of useful heat when the linoleum is incinerated which is then used for electricity production.

6.1.3 *Processes and flows*

Table 6. Main processes contributing to the environmental profile of the baseline system

impact category	processes
abiotic depletion	17% gas used by Forbo-Krommenie 15% electricity used by Forbo-Krommenie 13% oil used for the production of maintenance products (detergents and acrylic dispersions/emulsions)
Photochemical oxidant formation	25% VOC emissions due to transportation of raw material (total 44% VOC emissions during raw material production 27% VOC emissions caused by oil use during the production of maintenance products (total 32% VOC emissions during laying and use)
Depletion of the ozone layer	62% VOC emissions by the processes taking place at Forbo-Krommenie
Global warming	37% growing of linseed (mainly N2O emissions as a result of fertiliser use) 14% electricity used by Forbo-Krommenie B.V. 7% gas used by Forbo-Krommenie
Human toxicity	40% incineration of linoleum 17% VOC emissions during raw material production (10% from transportation by truck and freighter 11% VOC emissions caused by oil use during the production of maintenance products (total 13% VOC emissions during laying and use)
Aquatic Ecotoxicity	20% electricity used by Forbo-Krommenie B.V. 12% coal used for the production of detergents and acrylic dispersions/ emulsions 9% transportation of raw materials by sea freighter
Sediment ecotoxicity	19% electricity used by Forbo-Krommenie B.V. 12% coal used for the production of detergents and acrylic dispersions/ emulsions 10% transportation of raw materials by sea freighter
Ecotoxicity terrestrial	44% incineration of linoleum 37% growing of linseed
Acidification	28% growing of linseed (NH_3) 15% production of TiO2 15% transportation of raw materials by freighter and truck
Eutrophication	53% growing of linseed
Odour	21% coal used for the production of detergents and acrylic dispersions/ emulsions 18% gas used at Forbo-Krommenie 13% growing of linseed

The processes and flows that contribute most to the final results per impact category for the baseline system are described in Table 6 and Table 7. In all tables, the total of all positive contributions is set at 100%[8].

[8].This then excludes the negative contributions of avoided energy use through the production of useful heat during the incineration of linoleum.

Table 7. Main flows contributing to the environmental profile of the baseline system

impact category	flows
abiotic depletion	50% crude oil
	45% natural gas
Photochemical	32% ethylene to air
oxidant formation	18% formaldehyde to air
Depletion of the ozone layer	62% 1,1,1-trichloroethane to air
	35% HALON-1301 to air
Global warming	56% N2O to air
	41% CO2 to air
Human toxicity	34% benzene to air
	30% arsenic to air
	10% cadmium to air
Aquatic Ecotoxicity	34% vanadium to air
	32% barium to water
Sediment ecotoxicity	36% vanadium to air
	31% barium to water
Ecotoxicity terrestrial	38% mercury to air
	27% trichlorfon to soil
Acidification	53% SO_2 to air
	28% NH_3 to air
	19% NO_x to air
Eutrophication	53% NH_3
	41% NO_x
Odour	72% H_2S

Table 6 shows that a limited number of processes is responsible for the highest contributions to most impact categories. In Table 8, these main contributing processes are viewed in detail. Again, the total of all positive contributions is set at 100%. From the close resemblance between the percentages in both columns it can be seen that, for all these processes, a limited set of emissions is responsible for the high score of an impact category.
The results for "odour " should be considered with care. The special "odour " related to linoleum , perceptible at Forbo-Krommenie B.V. 's site, is not included in this study. Emissions of VOC during the oxidation of cement and the drying of linoleum cause this "odour ". Unfortunately, the individual VOC emissions at Forbo-Krommenie B.V. are not measured. Only the total VOC-emission is measured. Therefore, the emission of individual substances had to be estimated based on a standard emission profile which itself was based on solvent use. Apparently, this estimate does not match the real VOC mix very closely, as H2S emitted during the production of gas is cited as the main cause of "odour " for the life cycle stage "production of linoleum ". The emissions of VOC at Forbo-Krommenie B.V. are responsible for only 2% of the total result for "odour ", which seems unlikely. Therefore, we may conclude that "odour " is probably underestimated by using this standard emission profile.

The results for "depletion of the ozone layer " are probably overestimated because of the use of this standard emission profile. 62% of the ozone depletion is caused by VOC-emissions from Forbo-Krommenie B.V. (see Table 6). This is entirely the result of the emission of 1,1,1-trichlorethane (see Table 7). This is a solvent which is part of the standard emission profile, but which is not used at Forbo-Krommenie B.V.

Table 8. Processes contributing more than 10% to more than one category.

process	categories the process contributes to	%	mainly caused by	%
The growing of linseed				
	eutrophication	53	NH3	53
	terrestrial ecotoxicity	37	pesticides	37
	global warming	37	N20	37
	acidification	28	NH3	28
	odour	13	NH3	13
gas and electricity use at Forbo-Krommenie B.V.				
	abiotic depletion	32	natural gas	28
	global warming	21	CO2	21
	aquatic ecotoxicity (only electr.)	20	heavy metals (mainly barium and vanadium)	18
	sediment ecotoxicity (only electr.)	19	heavy metals (mainly barium and vanadium)	19
	odour (only gas)	18	H2S	17
Oil used for the production of maintenance products				
	photo. oxidant formation	27	VOC-mix*	27
	abiotic depletion	13	crude oil	13
	human toxicity	11	VOC-mix*	11
Transportation of raw materials				
	oxidant formation	25	VOC-mix*	25
	aquatic ecotoxicity (only freighter)	9	heavy metals (mainly vanadium)	9
	sediment ecotoxicity (only freighter)	10	heavy metals (mainly vanadium)	10
	human	10	VOC-mix*	10
	acidification	15	SO2	9
Incineration of linoleum				
	terrestrial ecotoxicity	44	heavy metals (mainly mercury)	44
	human toxicity	40	heavy metals (mainly cadmium and arsenic	39
coal used for the production of detergents and acrylic dispersions/ emulsions				
	odour	21	H2S	21
	aquatic ecotoxicity	12	heavy metals (mainly barium and vanadium)	12
	sediment ecotoxicity	12	heavy metals (mainly barium and vanadium)	12

*: VOC emissions are usually given as a total the VOC-mix. However, for the impact assessment, individual substances are needed. A standard emission profile representative for stationary combustion (Hauschild & Wenzel, 1998) is used to estimate which individual substances are present in this mix (see also § 4.3.2).

Some remarks are also in order as to the high contribution of heavy metals to the categories "human toxicity " and "ecotoxicity ". The high contribution of persistent metals is not always in accordance with the expectations based on knowledge of present toxic risk effects. This is not due to faults in the

characterisation factors for heavy metals. The multimedia model used to calculate toxicity factors is based on state-of-the-art knowledge concerning the fate of substances. It is a result of a general starting point in Guinée *et al.* (2000), that being that in an LCA, all effects now and in the future are taken into account. In other words: all methods used for effect assessment, are where possible, based on a time horizon of eternity. Because heavy metals are very persistent in the environment, since they do not break down as organic substances do, their contribution to toxicity themes, especially aquatic and sediment ecotoxicity, is very high. Therefore, the results should be considered with some care. It should be kept in mind that the high score for metals is a result of taking future toxic risks into account. If these future risks are evaluated as being lower than the present risks, the contribution of persistent substances would also be lower in the future. For this study, this would mean that the influence of the more degradable but very toxic pesticides would increase relatively.

6.1.4 Important processes and the consequences of data quality

If the most important processes are known, the consequences of data quality should be considered. The main question is: Is the data which underlies these processes valid and reliable?

In the stage "production of raw materials ", the growing of linseed and transport are important processes. The growing of linseed is overall a very important process contributing greatly to more than 5 impact categories. The data for this process is valid because it is representative. Its reliability, however, may be disputed. The emissions of NH_3, N_2O and pesticides both depend largely on assumptions. The emission of NH_3 and N_2O are based on the assumption that 1 % of applied fertiliser evaporates as NH_3 and that 1% as N_2O goes into the air (Välimaa & Stadig, 1998). The emission of pesticides is based on the assumption that on 20% of the fields, one herbicide and one pesticide is used. This information is based on communications with a supplier. If these assumptions are not realistic, influences on the result may be great. Therefore, a sensitivity analysis of fertiliser and pesticide use is carried out in § 6.4.4.

In the stage "production of linoleum ", the energy used at Forbo-Krommenie B.V. is most important. We expect that this data is valid and reliable. Therefore, these processes are not analysed further in the sensitivity analysis.

In the stage "laying and use ", the coal and oil used during the production of maintenance products is important. Data on the production of maintenance products is not complete. Therefore, in the scenario analysis, maintenance options are analysed in greater depth (see § 6.4.1).

In the stage "disposal ", the emissions produced during incineration are important. However, the figure of 100% incineration of used linoleum and the linoleum waste from Forbo-Krommenie B.V., is only an assumption. Therefore,a sensitivity analysis has been carried out in which the waste is not incinerated but landfilled (see 6.4.3) .

6.2 Comparison with previous LCA-studies on linoleum

The comparison of the results from this study with those of other studies on linoleum floor coverings, serves as a first validity check of the total results for the baseline system.

Three other LCA-studies on linoleum floorings were known at the time this report was being written:

- Potting & Blok carried out an LCA-study, in which four different types of floor covering including linoleum were compared (Potting & Blok, 1993, 1995).
- Jönsson *et al.* (1995) carried out an LCA-study in which three different types of floor covering including linoleum were compared. However, they did not calculate the contributions to impact categories but , rather compared the alternatives chiefly on the basis of inventory data. A large part of the data they used was based on Potting and Blok (1993).
- Günther and Langowski (1997) carried out an LCA-study, in which seven different types of floor covering, including linoleum, were compared. However, from this most recent study, only very few

results for linoleum are presented. No information concerning the contribution of processes or stages is presented, only the total results of the whole life cycle of linoleum are presented and compared to other floor coverings. Also, only a small selection of impact assessment categories is presented (no human toxicity or ecotoxicity, no oxidant formation, no "odour "). This makes the results of this study less useful for comparison.

Below, the results of our study are, where possible, compared to results from other LCA-studies. If a study is not mentioned, no data were available on the subject in question.

6.2.1 *Abiotic depletion*

In this study, the contribution of raw material production is the highest (36%), followed by the contribution of linoleum laying and use (32%), and production of linoleum (32%). However, the main contributing processes are the use of electricity and gas at Forbo-Krommenie B.V.

Potting & Blok (1993, 1995) state that of the use of primal energy carriers (≈ abiotic depletion) 66% is required for linoleum production and 20% for the production of pigment (TiO2). In the study of Jöhnsson *et al.* (1995), linoleum production is also responsible for the major portion of electricity use of and for the use of fossil fuels (respectively 44% and 67%). Also, in their study, the electricity used for the production of TiO2 is high: 30%.

The higher contribution of the other stages - raw material production and laying and use - in our study can be explained by two factors:

- The estimate of the energy used at Forbo-Krommenie B.V. in this study is lower than that which appears in other studies. In this study, the electricity used at Forbo-Krommenie per 1 m^2 laid linoleum is approximately 8 MJ. Potting and Blok give a value of 15 MJ and Jöhnsson *et al.*16 MJ.
- In our study, we gathered more data, especially on the laying and use phase.

Likewise, the contribution of the production and transport of TiO2 is much lower (only 5%) in our study. We used other data on the production of TiO2 than Potting & Blok and Jöhnsson. According to the supplier of our data on TiO2, the production of TiO2 has a relatively low energy need (pers. comm. Dr. Saur, PE).

6.2.2 *Eutrophication*

In this study, the growing of linseed is responsible for 53% of eutrophication. This is in accordance with Potting and Blok, who state that the eutrophication result is almost completely caused by the growing of linseed.

6.2.3 *Acidification*

In this study, 28% of the acidification is caused by the growing of linseed, 15% by the production of TiO2 and 15% by the transport of raw materials. Potting and Blok state that 44% is caused by transport (a figure which includes the transport of raw materials only) and 30% by the production of linoleum. Jöhnsson *et al.* state that the emissions of SO and NO_x are caused for a great part by transport (62% and 31%).

One explanation for the high contribution of linseed growing in our study is the assumption that 1% of the applied N-fertiliser evaporates as NH_3. In the other studies, no emissions of NH_3 are produced as no emission of NH_3 is found in the inventory tables.

6.2.4 *Photochemical oxidant formation*

In this study 27% of the photochemical oxidant formation is caused by VOC emissions resulting from oil use when producing maintenance products, and 25% is caused by VOC emissions resulting from transport by truck and freighter.

Potting and Blok found that 70% was caused by the VOC emission during the production of linoleum, and 15% by the incineration of linoleum. Jöhnsson *et al.* also found that 87% of the VOC emissions are a result of linoleum production, however, they based their data mainly on Potting and Blok.

In our study, the contribution of linoleum production to total VOC emissions is only 22%. The total amount of VOC emitted per m^2 laid linoleum by the factory at Krommenie issomewhat lower (2 g) in our study than in those of Potting and Blok, and Jöhnsson (both 5 g). However, the total emitted amount is higher in our study: 19 g in our study, 7 g in Potting and Blok and 6 g in Jöhnsson respectively.

Since our data on VOC emissions comes directly from Forbo-Krommenie B.V., while the data presented in other studies comes mainly from the environmental permits, our data is more realistic. Also, the data on the other stages in our study appears to be more complete.

6.2.5 *Depletion of the ozone layer*

In this study, we recorded a relatively low score for ozone depletion compared to the other impact categories. Potting and Blok, and Jöhnsson *et al.* assumed no ozone depleting emissions.

6.2.6 *Global warming*

In this study, we found that 37% of the global warming is caused by the growing of linseed and 21% by the use of electricity and gas during linoleum production.

Potting and Blok found that 66% was caused by the production of linoleum and 20% by the production of pigment (TiO2). Also in Jöhnsson *et al.* linoleum production was responsible for 58% of CO_2 emissions.

One explanation for the high contribution of linseed growing in our study is the assumption that 1% of the applied N-fertiliser evaporates as N_2O. In the other studies, no emissions of N_2O take place (no emission of N_2O are found in the inventory tables). The contribution of the production of TiO2 in our study is only 4%.

6.2.7 *Ecotoxicity*

In this study, we found a relatively high contribution for ecotoxicity. Potting and Blok, and Jöhnsson *et al.* found almost no emissions to water. Potting and Blok mention the use of pesticides for the growing of linseed, but were not able to quantify the emissions.

6.2.8 *Human Toxicity*

In this study, human toxicity is mainly caused by emissions of heavy metals and benzene as a result of the incineration of linoleum as well as of VOC emissions which occur during the production of raw materials. Potting and Blok present an impact category "spoiled air " (≈ human toxicity by air emission). The result for this category is mainly caused by the emission of dust during production of limestone. They also mention that the contribution of pesticides could not be quantified properly, but is probably considerable.In our study, however, the influence of pesticide use on human toxicity is relatively low (<1%).

6.2.9 *Odour*

Odour is not mentioned in other studies, so no comparison could be made.

6.2.10 *Conclusions*

When compared with the other studies, more data was compiled here on life cycle stages, such as raw material production, use and maintenance (e.g. emissions which ocuur during the production of linseed or in the production of maintenance products). This resulted in a relatively large contribution of these life cycle stages to the final environmental profile. However, it should be kept in mind that these data were not validated or made public.

Furthermore, we used emission data directly provide by Forbo-Krommenie B.V. These values were lower than the values from the environmental permit for the factory in Assendelft which were used in the other studies. The lower values are the result of improvements made by Forbo-Krommenie B.V. after the submission of the permit. For instance, lacquers with less solvents are now used and more VOCs are removed by the incinerators. The data provided by Forbo-Krommenie B.V. is more realistic and, therefore, the lower contribution of the lifecycle stage "production of linoleum " is also more realistic than that offered in the other studies. This data is amongst others reported in environmental reports and in reports by Central Statistics Netherlands.

6.3 Perturbation analysis

In the perturbation analysis, the influence of a variation in each economic flow on the final result is calculated using matrix techniques. This may provide insight into which processes have a more than proportional effect on the end result. These processes could then become the focal point for further sensitivity analysis. In table 2, the results of the perturbation analysis are presented. The factor is the ratio between the change in the flow and the change in the result. If this factor is higher than 1 for a given flow, this means that a change in the flow concerned results in a more than proportional change in the result.

Table 9 shows that "laid linoleum " is the most important economic flow for all impact categories. For global warming, and aquatic and sediment ecotoxicity, a change in this flow results in a more than 10% higher change in the final category result. However, since this economic flow ($2000m^2$) is directly coupled to the functional unit ($2000m^2 \cdot 20$ years), there is no uncertainty concerning this flow. Therefore, the flow is not evaluated in the uncertainty analysis based on scenarios in § 6.4. It is concluded that no environmental flow has more than a proportional effect on the final results per impact category.

Table 9. perturbation analysis

category	economic flow	ratio change flow/ change result	environmental flow	ratio change flow/ change result
abiotic depletion	laid linoleum	1.03	none above 1	-
photo. oxidant formation	none above 1	-	none above 1	-
depletion of the ozone layer	none above 1	-	none above 1	-
global warming	laid linoleum	1.18	none above 1	-
	2.5 mm linoleum packed	1.09		
	2.5 mm linoleum trimmed	1.06		
	2.5 mm linoleum dried	1.03		
human toxicity	none above 1	-	none above 1	-
aquatic ecotoxicity	laid linoleum	1.12	none above 1	-
sediment ecotoxicity	laid linoleum	1.12	none above 1	-
terrestrial ecotoxicity	none above 1	-	none above 1	-
acidification	laid linoleum	1.02	none above 1	-
eutrophication	none above 1	-	none above 1	-
odour	none above 1	-	none above 1	-

6.4 Scenarios

Scenario analysis is used to verify what percentage of the results for the baseline system is influenced by differences in system, processes or process data, or by differences in methods.

6.4.1 Alternative systems/countries

In § 3.4, we defined two functionally equivalent alternatives along with the baseline system. One of these systems is the Swedish system. Analysing this system provides insight into the effects of different maintenance systems, different gauges and different transportation distances for the linoleum. To evaluate the influence of transportation distances, the USA scenario is introduced.

In Figure 4, the results for three alternative scenarios related to the country of use are presented.

- The Swedish scenario: in Sweden, a thinner gauge of 2.0 mm is frequently used in public buildings. Because of the different climate in Sweden, a different maintenance system is also used. This system is based on wax rather than on stripping and on adding a new polymer top layer as is the case in the Netherlands.
- The 2.0 mm system NL is the 2.0 mm gauge used in the Netherlands, using the Dutch maintenance system.
- The scenario for the US is the same as the baseline system, with an additional transport distance (transport to and in the USA).

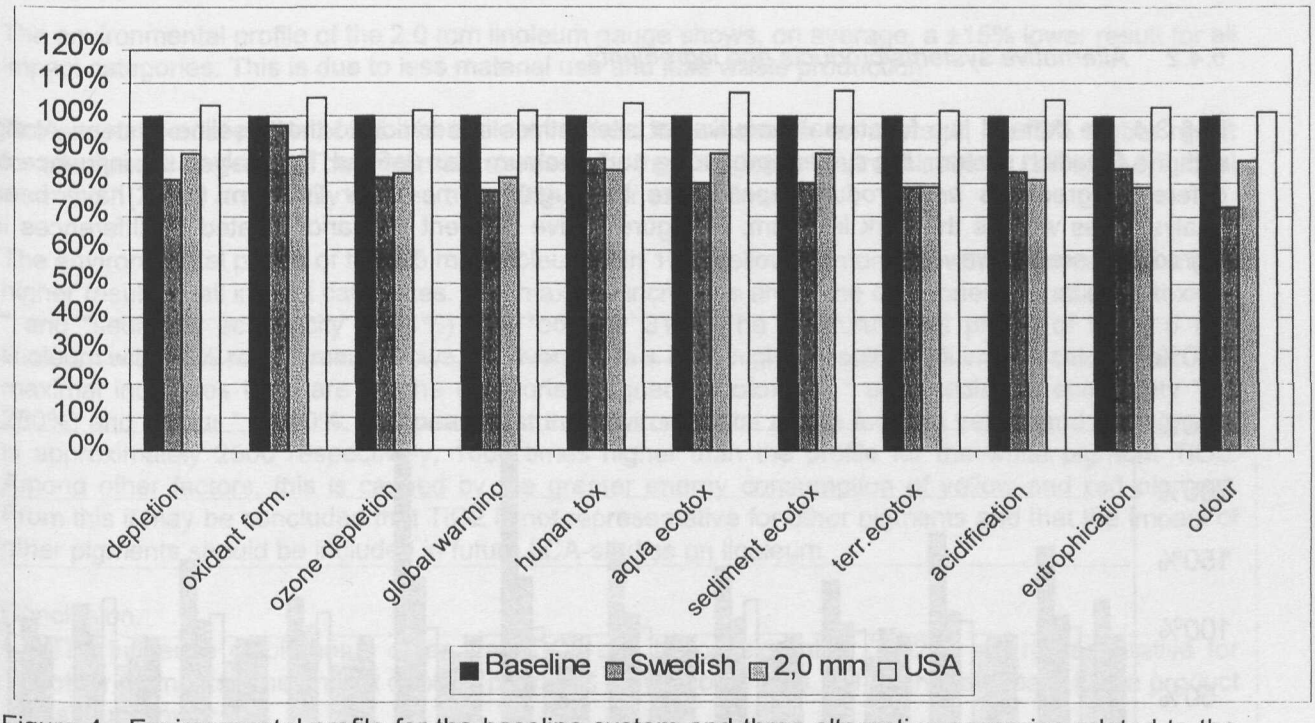


Figure 4 . Environmental profile for the baseline system and three alternative scenarios related to the country of use.

This figure would indicate that despite the longer transportation distances, the Swedish system yields lower results (3-27%) than the baseline. This is caused by the lower contribution of the Swedish maintenance system and the fact that less material is needed for the gauge 2.0 mm. However, the lower contribution of the Swedish maintenance system is at least partly the result of lack of data. Data on the emissions and use of energy during the production of maintenance products is less complete than for the Dutch system.

The 2.0 mm gauge used in the Netherlands scores lower for oxidant formation, human toxicity, terrestrial ecotoxicity, acidification and eutrophication. For the other categories, however, it scores higher than the Swedish scenario. This means that maintenance has more influence than transportation distance for those categories. It appears that the environmental profile (the list of the results for all impact categories) for the Swedish maintenance system is indeed 80-90% lower than for the Dutch maintenance system.

This is at least partly a result of data gaps for the production of maintenance products for the Swedish method. It followed from the contribution analysis that the oil and coal consumed during the production of maintenance products contributes considerably to human toxicity, ecotoxicity, abiotic depletion and photo oxidant formation. Although the validity and reliability of the ETH data used for these processes can be questioned, it at least indicates that the contribution of the production processes for maintenance products are not negligible. Based on this study, no other conclusions can be drawn concerning the difference between Dutch and Swedish maintenance systems.

The results for the USA scenario are higher for every impact category, however, not much higher. The maximal increase in ecotoxicity was found in sediment ecotoxicity, which was 8% higher for the USA scenario as compared to the baseline scenario.

Conclusion :

- The extra transport by freighter to the USA has less impact than was expected.
- The influence of maintenance is not negligible, as is often thought.

6.4.2 Alternative systems/products and ingredients

In § 3.4, we defined two functionally equivalent alternatives in addition to the baseline system. Along with the Swedish system, the system producing cork linoleum was defined. To analyse the influence of different ingredients and product types more thoroughly some other linoleum types have been analysed, as well as the cork linoleum. In Figure 5, five different scenarios related to differences in ingredients are shown.

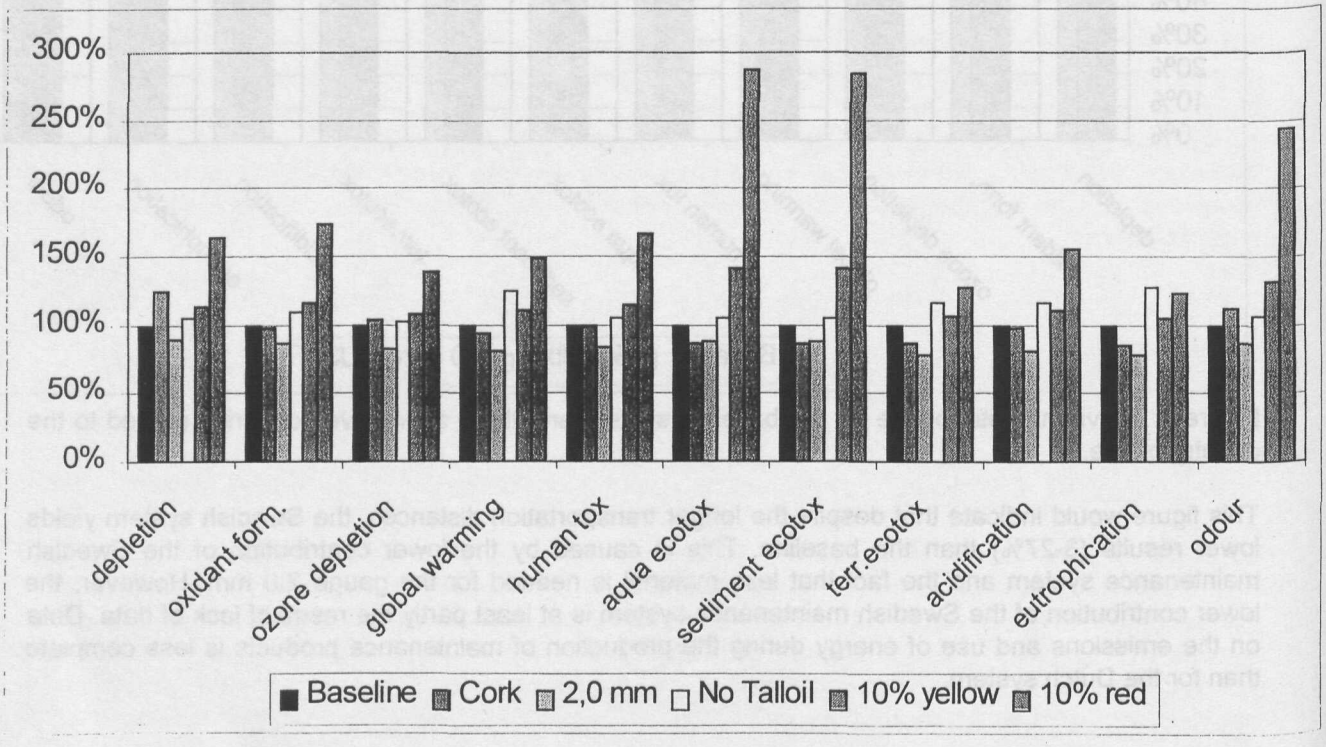


Figure 5. Environmental profile for the baseline system and five alternative scenarios related to differences in ingredients.

- The cork-linoleum is based on 4.5 mm cork linoleum. In the production of cork linoleum, cork powder is used instead of wood flour. This cork powder is first sieved at Forbo-Krommenie B.V. The composition of this linoleum also differs from normal Marmoleum.
- The 2.0 mm gauge used in the Netherlands was already described above.
- "No tall oil " linoleum receipt is made without tall oil.
- "10% yellow and 10% red " are scenarios in which 10% of the TiO2 is replaced by respectively yellow and red organic pigments. In the linoleum produced by Forbo-Krommenie B.V., an average 16% of the pigment consists of pigment other than TiO2. 12% consists of iron oxides and 4% of organic pigment (source: Forbo-Krommenie B.V.). thus, 10% organic pigments is approximately twice as high as the actual amount of organic pigments, but lower than the total amount of "alternative " pigments.

The environmental profile of cork-linoleum shows lower results for most impact categories than the baseline scenario. This decrease varies from 1 to 13% (for the ecotoxicity categories). This decrease is mainly the result of using fewer materials in addition to cork (relatively more cork is used than wood powder) which also results in a reduction in the use of electricity during raw material production, and of linseed. However, the results for the impact categories "abiotic depletion ", "odour " and "depletion of the ozone layer " are respectively 25%, 13% and 3% higher than those in the baseline scenario. For "abiotic depletion " and "odour " this is mainly the result of a high use of gas during the milling and drying of cork, and for "depletion of the ozone layer "of an increase in the VOC emissions from the production site in Assendelft (9% higher).

The environmental profile of the 2.0 mm linoleum gauge shows, on average, a ±15% lower result for all impact categories. This is due to less material use and less waste production.

The environmental profile of 2.5 mm linoleum without tall oil shows, on average, a ±15% higher result for all impact categories. The maximal increases for the categories "eutrophication " (28%) and "global warming " (25%), are mainly caused by a 40% higher use of linseed.

The environmental profile of the 2.5 mm linoleum with 10% yellow pigment shows, on average, a ±15% higher result for all impact categories. The maximal increases are in the categories "aquatic ecotoxicity " and "sediment ecotoxicity " (41%) and "odour " 31%. The environmental profile of the 2.5 mm linoleum with 10% red pigment shows, on average, a ± 80% higher result for all impact categories. The maximal increases here are for the categories "aquatic ecotoxicity " and "sediment ecotoxicity " (± 280%) and "odour " ± 240%. It appears that the environmental profile for 1 kg yellow and red pigment is approximately 2500 respectively, 1000 times higher than the profile for the white pigment TiO2. Among other factors, this is caused by the greater energy consumption of yellow and red pigment. From this it may be concluded that TiO2 is not representative for other pigments and that the impact of other pigments should be included in future LCA-studies on linoleum.

Conclusion:

- The influence of pigments other than TiO2 can be considerable. TiO2 is not representative for other pigments. The impact of other pigments may also be high, although their share in the product is much lower.
- Using tall oil in the linoleum is better for the environment than using only linseed oil and gum rosin.
- Using 2.0 mm linoleum is better for the environment. However, this is only the case if the life span of the 2.0 mm linoleum is more or less the same as that of the 2.5 mm gauge.

6.4.3 *Alternative allocation methods/waste*

Data on the treatment of waste depends for a large part, on assumptions. It is assumed, for example, that all old linoleum and all linoleum waste from Forbo-Krommenie B.V. is incinerated. It is also

assumed that electricity is produced just as it is assumed that the efficiency is 40%. To analyse the effect of these assumptions, we used a few scenarios in which waste treatment is varied.

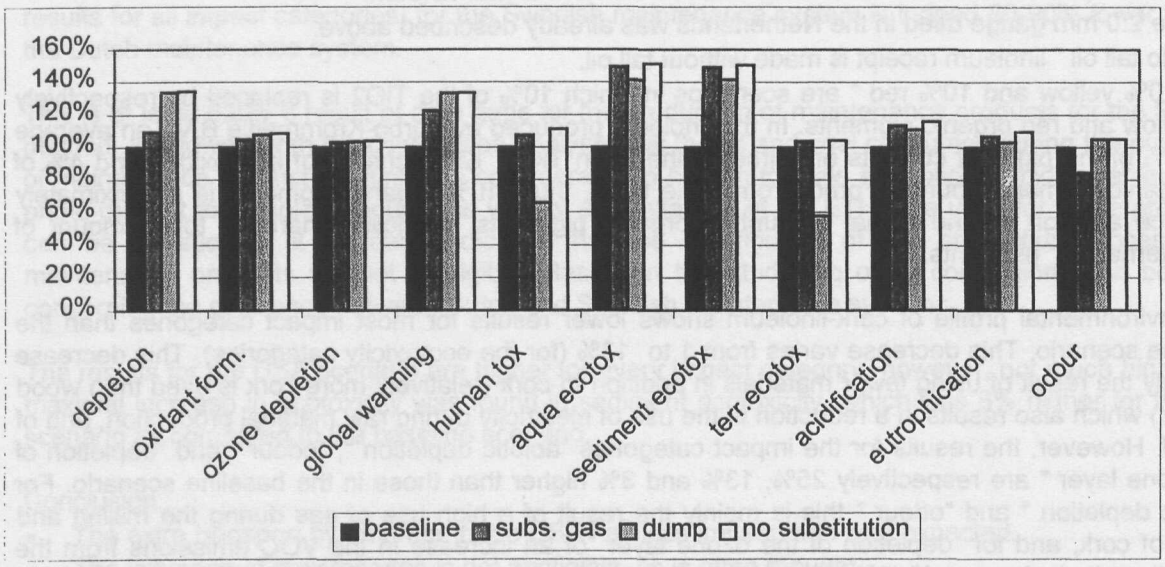


Figure 6. Environmental profile for the baseline system and three different scenarios related to handling linoleum waste

In Figure 6, three different scenarios related to handling linoleum waste are shown.

- The first scenario is an alternative allocation method for the heat produced by theincineration of linoleum. It is assumed in this scenario that the heat is used for heating (e.g. city heating) Heat is, therefore, replaced with avoided gas use.
- The second scenario is based on dumping the linoleum in a landfill site, rather than incinerating it.
- The third scenario is an alternative allocation method for the heat produced by the incineration of linoleum. Instead of the substitution method the surplus method is used, which means that the produced is not used and that no inputs or outputs are allocated to this flow.

Figure 6 shows that the allocation method chosen for the baseline received the lowest score for virtually every impact category. Substitution of gas use for electricity use results in a 15% lower score for "odour " and a higher score for all other impact categories. Dumping the waste on a landfill site results in a substantial lower score for human toxicity (34% lower) and terrestrial ecotoxicity (42% lower), this, however, is not surprising since in both categories, emissions resulting from the incineration of linoleum cause the highest score. For all other categories, the results are higher. Not surprisingly, the scenario in which the heat produced is not used, shows the highest results for all impact categories.

6.4.4 Alternative data/miscellaneous

In Table 10, some scenarios related to input data are presented.

- Because the growing of linseed is an important process and because data is partially based on assumptions (see discussions on data quality in § 4.3.1and 6.1.4), three different scenarios concerning pesticide emissions and N-emission were evaluated.
  - The scenario is based on the assumption that all pesticides that could be used according to the supplier are indeed used on every hectare, in the prescribed dose. Since the suppliers also

indicated that on only approx. 20% of the fields a pesticide is used, and that at no time are all pesticides used at the same field, this represents the worse possible scenario.
  - The scenario based on the absence of pesticide use.
  - The scenario based on a lower use of N-fertiliser (0.04 kg N per kg linseed instead of 0.068 ≈ the amount taken up yearly by the linseed)
- Given the low score of the VOC-emissions at Forbo-Krommenie B.V. in relation to the H2S score on the impact category "odour " an alternative scenario was evaluated assuming all emitted VOC were butanal (" "that is, having a relatively high "odour " factor).
- In order to ascertain whether shorter transportation distances for the raw materials would yield a substantially lower environmental profile, a scenario was analysed based on a 50% lower transportation distance per barge, for all raw materials.

Table 10. Environmental profiles for various scenarios with alternative input data, relative to the baseline system (in %).

	high pesticide	no pesticide	lower use of N-fertiliser	all VOC at Forbo-Krommenie B.V. = butanal	50% shorter transportation by freighter
Depletion of abiotic resources	102	100	97	nr	98
Photochemical oxidant formation	104	100	98	nr	98
Depletion of the ozone layer	101	100	99	nr	99
Global warming	101	100	76	nr	99
Human toxicity	105	100	98	nr	98
Aquatic ecotoxicity	102	100	95	nr	93
Sediment ecotoxicity	102	100	95	nr	93
Terrestrial ecotoxicity	162	61	99	nr	99
Acidification	101	100	85	nr	96
Eutrophication	102	100	74	nr	98
Odour	101	100	91	2100	99

nr = not relevant

The "high pesticide use " scenario shows mainly a higher score in the category "terrestrial ecotoxicity ". The effect on human toxicity is relatively low (only a 5% increase), which is in accordance with the observation made above concerning the relatively low contribution of pesticide emissions to human toxicity. The effect on aquatic and sediment toxicity is still not very high. The effect of heavy metals continues to dominate these impact categories. Not surprisingly, the "no pesticide use " scenario shows the opposite effect. The impact category "terrestrial toxicity " shows a decrease of 39% while the other categories show no decrease.

The "lower use of N-fertiliser " scenario shows lower results for every impact category. Global warming, acidification and eutrophication show a decrease of 15-26%. The influence on the other categories is lower.

The replacement of all VOC-emissions by butanal (hence a worse case estimate for "odour ") leads to an increase in the result for the impact category "odour " by a factor of 21. In this scenario, 95% of the score for "odour " is caused by the VOC-emissions at Forbo-Krommenie B.V. Thus, assumptions concerning the composition of the VOC emissions at Forbo-Krommenie B.V.have a considerable influence on the category "odour ".

The scenario in which transport by sea-freighter is halved shows slightly lower results for all impact categories. The greatest decrease is seen in the category "ecotoxicity " for water and sediment (7%).

Conclusions:

- Reduction of pesticides only effects terrestrial ecotoxicity, and not the other toxicity categories.
- Reduction in the use of N-fertiliser mostly effects the results for global warming, eutrophication and acidification.
- If the assumption that 1% of the applied N evaporates as NH_3 and 1% as N_2O is not realistic, but rather too high, the results for global warming, eutrophication and acidification are overestimated.
- Reduction in the transportation distance for raw materials has some effect on aquatic and sediment ecotoxicity.
- Assumptions concerning the composition of VOC emissions at Forbo-Krommenie B.V. have a considerable influence on the category "odour ". A better estimate of the composition of these emissions is necessary in order to assess the effects on "odour " properly in an LCA on linoleum products.

6.4.5 Alternative impact assessment methods

NB! The methods used in this section are not in accordance with ISO standards and guidelines, as weighting is performed, and methods combining characterisation and weighting as one step are used.

In addition to the CML-2000 method (Guinée *et al.*, 2000) which is followed in this study, there are a number of other methods for impact assessment in LCA. Some of these methods follow more or less the same structure as the CML-method in that they first calculate results per impact category by multiplying the emissions/extractions with characterisation factors. These results per impact category can then possibly be weighted and summed to such an indicator as Ecoindicator 95: Goedkoop, 1995. Yet other methods use factors which combine the characterisation and weighting step in one, resulting directly in one final value (e.g. EPS: Steen, 1996; Ecoscarcity: Ahbe *et al.*, 1990, Baumann, 1992; ExternE: EC, 1995).

A few of those alternative methods are applied to the baseline scenario in order to determine how dependent the results are on the method used. The additional methods we used are:

- The Ecoindicator 95 (Goedkoop, 1995).
- ExternE (EC, 1995).
- EPS (Steen, 1996).
- Swiss Ecoscarcity (Ahbe *et al.*, 1990).
- Norwegian Ecoscarcity (Baumann, 1992).

The ecoindicator is comparable to CML-2000, in that characterisation, normalisation and weighting are done in separate steps. Therefore, the contribution of the different life cycle stages to the individual impact categories could be visualised and compared to the unweighted results for the CML-2000 method. For the other methods, characterisation and weighting are combined in one step to yield one weighted total result. Therefore, a comparison of these methods with the CML-2000 method was only possible when the results per impact category for the CML-2000 method were also weighted. Hence, we applied an equal weighting to all categories (counting ecotoxicity as one category), resulting in Figure 8 and Table 11.

In
Figure 7 the results calculated with the Ecoindicator 95 are presented. When this figure is compared with Figure 3, it becomes apparent that the results for impact categories, which are part of both methods, are very similar. However, the Ecoindicator has a different way of dealing with toxic substances. Their categories i.e. "heavy metals ", "pesticides ", "carcinogenic substances ", are grouped according to substance characteristic/effect type, while the CML-method is more focused on such endpoints as risk to ecosystems and risk to humans[9]. When all categories are weighted and

[9] in the new version of the ecoindicator, the ecoindicator 99 the impact categories are defined even more at endpoint level than in the CML-method: human health, ecosystem quality and resources. However, this method was not available yet at the moment the database of CMLCA was set up.

summed, the most important impact category is heavy metals, which accounts for 75% of the total positive score (excl. negative value of linoleum incineration). If one were to use equal weights for every impact category, "sediment ecotoxicity " would be the most important impact category for the CML-method (67%), attributable largely to heavy metals. However, the high contribution of heavy metals to ecotoxicity in the CML-2000 method should be considered with some care, as was discussed above see (§ 6.1.3).

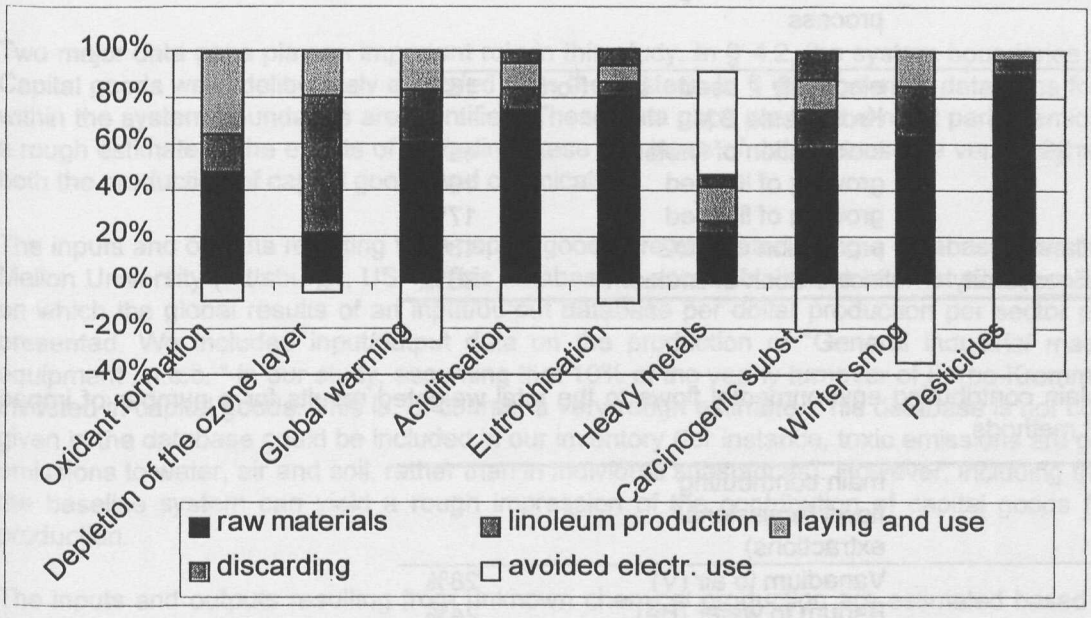


Figure 7. Environmental profile of the baseline system calculated with the Ecoindicator 95, split-up into life cycle stages.

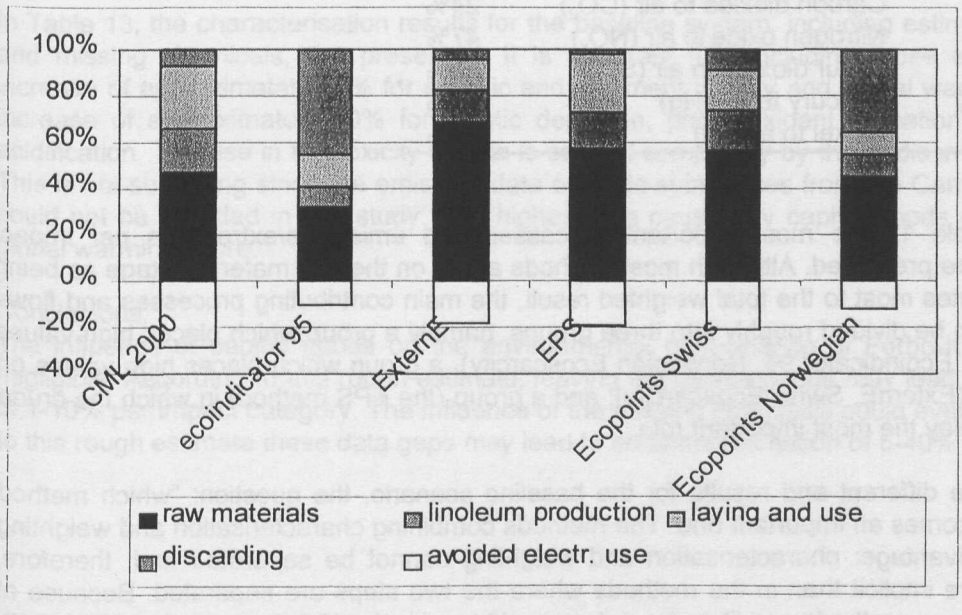


Figure 8. Total weighted results for the baseline system calculated with different methods.

In Figure 8, the results calculated with the methods combining characterisation and weighting in one step are compared with the weighted results for the Ecoindicator 95 and the CML 2000 method, using the arbitrary weighting factor of 1 for each impact category (except the ecotoxicity categories, which were first averaged and the average result was then weighted with a factor of 1). All methods indicate

the raw material stage as the most important, with the exception of the Ecoindicator 95 which rates the disposal stage the highest.

Table 11. Main contributing processes to the total positive weighted results for a number of impact assessment methods (excluding the negative result of incinerating linoleum).

IA method	main contributing process	
CML 2000	electricity used by Forbo-Krommenie B.V.	16%
Ecoindicator 95	incineration of linoleum	45%
ExternE	growing of linseed	19%
EPS	growing of linseed	17%
Swiss Ecoscarcity	production of TiO2	13%
Norwegian Ecoscarcity	incineration of linoleum	36%

Table 12. Main contributing environmental flows to the total weighted results for a number of impact assessment methods

IA method	main contributing flows (emissions/ extractions)	
CML 2000	Vanadium to air (V)	28%
	Barium to water (Ba)	24%
Ecoindicator 95	Cadmium to air (Cd)	25%
	Lead to air (Pb)	13%
ExternE	Sulfur dioxide to air (SO_2)	38%
	Nitrogen oxide to air (NO_x)	24%
EPS	Crude oil (resource)	26%
	Carbon dioxide to air (CO_2)	24%
Swiss Ecoscarcity	Nitrogen oxide to air (NO_x)	47%
	Sulfur dioxide to air (SO_2)	29%
Norwegian Ecoscarcity	Mercury to air (Hg)	25%
	Nickel to air (Ni)	24%

In Table 11 and Table 12 the most important processes and emissions/extractions per impact assessment method are presented. Although most methods agree on the raw materials stage as being the stage that contributes most to the total weighted result, the main contributing processes and flows vary. The methods can be divided roughly into three groups, namely a group which places high values on metals (CML 2000, Ecoindicator 95, Norwegian Ecoscarcity), a group which places high values on acidifying substances (ExternE, Swiss Ecoscarcity), and a group (the EPS method) in which the crude oil resource and CO_2 play the most important role.

Since all methods give different end results for the baseline scenario, the question: "which method should be used? ", becomes an important one. The methods combining characterisation and weighting have one major disadvantage: characterisation and weighting cannot be separated and, therefore, value choices are more implicit than in the methods where the two steps are separated. Because of this combined step, these methods are likewise not compatible with the ISO framework (ISO 14042, 1999). In the ISO framework, the environmental profile resulting from classification and characterisation is an important result on its own, and the more value-based weighting procedures are clearly a separate optional element (ISO 14042, 1999). Doing the analysis in two steps leads to greater transparency. It makes it possible to analyse the data more thoroughly by providing more information on the types of environmental impacts that can be expected. Moreover, combined methods often work with much smaller sets of factors. The EPS, ExternE and Ecoscarcity methods used in this study, use

sets of 10 to <70 different factors, whereas both the CML 2000 method and the Ecoindicator 95 have more than 1000 factors. Therefore, we advise using a two step method and because the factors from the CML 2000 method are more up to date than those of the Ecoindicator 95, we advise using the results from the CML 2000 method[10]

6.5 Data gaps

Two major data gaps play an important role in this study. In § 4.2, the system boundaries are defined. Capital goods were deliberately excluded from the system. In § 4.3, the main data gaps for processes within the system boundaries are identified. These data gaps are for the most part chemicals. To give a rough estimate of the effects of excluding these two types of data, we used a very rough estimate for both the production of capital goods and chemicals.

The inputs and outputs resulting from capital goods are estimated using a database from the Carnegie Mellon University (Pittsburgh, USA). This database is accessible at the internet site (www.eiolca.net), on which the global results of an input/output database per dollar production per sector per year are presented. We included input/output data on the production of "General industrial machinery and equipment , n.e.c. " in our study, assuming that 10% of the yearly turnover of Forbo-Krommenie B.V. is invested in capital goods. This is, of course, a very rough estimate. This database is not complete and given in the database could be included in our inventory (for instance, toxic emissions are given in total emissions to water, air and soil, rather than in individual substances). However, including these data in the baseline system can yield a rough impression of the contribution of capital goods for linoleum production.

The inputs and outputs resulting from unknown chemical production are estimated based on data on the production of organic chemicals in the ETH-database. This is also a very rough estimate. This data is probably not entirely representative for the missing chemicals and the reliability of the data on this general organic chemical will not be very high. Not all chemicals for which data was unavailable will be organic chemicals. However, the emissions for organic chemicals in the ETH-database are higher than for the inorganic chemicals, hence choosing the organic chemical yields a sort of worse case estimate.

In Table 13, the characterisation results for the baseline system, including estimates for capital goods and missing chemicals, are presented. It is apparent that including those estimates leads to an increase of approximately 40% for aquatic and sediment toxicity and global warming as well as to an increase of approximately 20% for abiotic depletion, photo oxidant formation, global warming and acidification. The rise in the toxicity results is caused completely by the addition of data on chemicals. This is not surprising since the emission data on toxic substances from the Carnegie Mellon database could not be included in this study. The highest rise caused by capital goods is the 10% rise of the global warming score.

Conclusions:
The influence of capital goods on the environmental performance of Forbo-Krommenie B.V. is not negligible. According to this rough estimate, leaving out capital goods may lead to an underestimation of 1-10% per impact category. The influence of the missing chemicals could even be higher. According to this rough estimate these data gaps may lead to an underestimation of 5-40% per impact category.

[10] In future LCA studies, the Ecoindicator 99 might well be a valuable addition to the CML 2000 method for Forbo-Krommie BV.

Table 13. Characterisation results for the baseline system including estimates for capital goods and missing chemicals, relative to the baseline system (in %).

	addition of missing chemicals	addition of capital goods	addition of missing chemicals and capital goods
Depletion of abiotic resources	114	105	118
Photochem. oxidant formation	113	107	119
Depletion of the ozone layer	107	102	109
Global warming	112	110	122
Human toxicity	110	103	113
Aquatic ecotoxicity	138	100	138
Sediment ecotoxicity	138	100	138
Terrestrial ecotoxicity	106	100	106
Acidification	116	106	122
Eutrophication	104	104	108
Odour	105	101	105

6.6 Data quality and applicability

Combining the results from the contribution analysis with the knowledge on the quality of the data the following conclusions may be drawn :

- Data on the growing of linseed is partially based on assumptions. Because this process has a large influence on the outcome of the study (see § 6.1.3 and the scenarios in § 6.4.4), it is advisable to try to ground these assumptions with better data.
- Better data on maintenance products is needed. The results of the comparison of the Dutch and Swedish scenario are influenced by a lack of data on the production of Swedish maintenance products (see scenarios in § 6.4.1). Therefore, no conclusions can be based on the comparison of these maintenance systems, other than that maintenance is not negligible.
- Because the data on red an yellow pigments comes from personal communications only, a quality check was not possible. However, inclusion of this data did show that its influence can be considerable (see scenarios in § 6.4.2).
- The estimate of the composition of VOC emissions at Forbo-Krommenie B.V. is not very realistic. As a consequence, the result for "depletion of the ozone layer " is overestimated and the result for "odour " is underestimated (see scenario in § 6.4.4 and the discussion on "depletion of the ozone layer " in § 6.1.3, Table 6 and Table 8). These results are therefore, less reliable.
- The use of average data for the landfilling process is not very representative for the effects of dumped linoleum. However only a small fraction of the linoleum is supposed to be dumped. Moreover the contribution of the process landfilling is not important for any of the impact categories. So the use of these average data probably does not have a high influence on the result of this study.
- Because the linseed straw was not included in the study (see § 4.2), the emissions of the burning of this straw other than CO_2 are not included in this study. This might result in an underestimation of the contribution of the process " growing of linseed " which is already a very important contributing process.
- According to a very rough estimate leaving out capital goods may lead to an underestimation of 1-10% per impact category (see scenario in § 6.5).
- The influence of the missing chemicals (mainly in maintenance products, lacquers and adhesives) on the environmental profile could be even more substantial. According to a very rough estimate, these data gaps may lead to an underestimation of 5-40% per impact category (see scenario in § 6.5).

Based on these conclusions we would state that:

- The results of the study are applicable for analysis of the described systems only. This means that:
  - The results should not be used to compare the environmental performance of linoleum produced by Forbo-Krommenie B.V. to other products.

- The results should not be used to compare systems with different capital goods because capital goods are not included.
- The results should not be used to compare different maintenance systems because too much data on chemicals in maintenance products is missing.

- The results for "odour " and "depletion of the ozone layer " should be presented with some care as the unreliable VOC estimations at Forbo-Krommenie B.V. play an important role in these impact categories.

7 Conclusions and discussion

In this chapter, the main conclusions following from the study are summarised, and the consequences for Forbo-Krommenie B.V. are outlined.

7.1 Main conclusions from inventory, impact assessment and interpretation summarised

Data gaps

No process data was available for the following processes:

- The production and transport of pesticides (use and emission of pesticides is included).
- The production and transport of the fertiliser S needed in the process "growing linseed " .
- The production and transport of some raw materials needed for maintenance products (additives, thickeners, solvents) and almost all ingredients for those materials.
- The production and transport of some raw materials needed for the production of materials used during laying (adhesives and materials used to seal the seams for professionally used linoleum floors).
- The production and transport of a catalyst needed in the process "esterification of tall oil ".
- The production and transport of the maintenance product used for removing the polymer dressing on linoleum floor covering needed in the process "the use and maintenance of 1m2 linoleum for 20 years ".

Flows not assigned to an impact category

In total there are 264 inputs/outputs that could not be assigned to an impact category. These are mainly from the ETH database. A large portion of the emissions (132 emissions) are radioactive emissions. Since radiation is not included in this study (because no consensus has yet been reached concerning the impact assessment method to be used) it could not be included in the impact assessment results.

Main contributing processes

The processes or groups of processes that contribute largely to more than one impact category are:

- The growing of linseed (emissions of NH_3, N_20 , pesticides).
- Gas and electricity used at Forbo-Krommenie B.V.
- Oil used for the production of maintenance products.
- The transport of raw materials.
- The incineration of linoleum.
- Coal used for the production of detergents and acrylic dispersions/emulsions.

Scenarios

The following conclusions were drawn from the scenarios:

- Extra transport by freighter to the USA has less impact than was expected.
- The influence of maintenance in the "use " phase is not negligible as is often thought.
- The influence of other pigments than TiO2 can be considerable. TiO2 is not representative for other pigments. The impact of other pigments may be high even though their mass share in the product is much lower.
- Using tall oil in linoleum is better for the environment than using only linseed oil.
- Using 2.0 mm linoleum is better for the environment. However, this is only the case if the life span of the 2.0 mm linoleum is more or less the same as for the 2.5 mm version.
- Substitution of useful heat produced during the incinerating of linoleum with avoided electricity use is the best of the studied alternatives.
- Reduction in the use of pesticide only effects terrestrial ecotoxicity, and not the other toxicity categories.

- Reduction in the use of N-fertiliser affects the results for global warming, eutrophication and acidification substantially.
- Reduction of the transportation distance for raw materials has some effect on aquatic and sediment ecotoxicity.
- Changes in the composition of the VOC emissions at Forbo-Krommenie B.V. have a considerable influence on the category "odour ". A better estimate of the composition of these emissions is necessary in order to assess the effects on "odour " and "depletion of the ozone layer " properly in an LCA on linoleum products.
- The influence of capital goods is certainly not negligible. According to a very rough scenario leaving out capital goods may lead to an underestimation of 1-10%. The influence of the missing chemicals could be even more substantial. According to a very rough scenario these data gaps may lead to an underestimation of 5-40%.

7.2 Discussion & final conclusions

Main contributing processes

In the stage "production of raw materials " the growing of linseed and transport are important processes. The growing of linseed is overall a very important process contributing greatly to more than 5 impact categories (see § 6.1.3), mainly caused by the emissions of NH_3. The data for this process is valid because it is representative. However, its reliability may be disputed. The emissions of both NH_3, N_2O and pesticides depend largely on assumptions. If these assumptions are not realistic, this may have large influences on results (see the scenarios in 6.4.4). Therefore it is advisable to try to ground these assumptions with better data. Still, Forbo-Krommenie B.V. could improve their environmental performance on many impact categories by using linseed that is cultivated with less fertiliser and less pesticides.

This high impact of the process "growing of linseed" also is responsible for the difference between linoleum with and without tall oil (see scenario in 6.4.2). Linoleum with tall oil has a better environmental profile than linoleum without tall oil because the use of linseed is lower. Therefore, reduction of the amount of tall oil in favour of linseed oil does not improve environmental performance.

In the stage "production of linoleum " the energy used at Forbo-Krommenie B.V. is most important. We expect that this data is valid and reliable. Saving on the use of electricity and gas is therefore an opportunity for improvement. This is an option or which Forbo-Krommenie B.V. is not dependent on its suppliers.

In the stage "laying and use ", the coal and oil used during the production of maintenance products is important. Data on the production of maintenance products is not complete. Therefore, in the scenario analysis, maintenance options were analysed in greater detail (see § 6.4.1) The results of the comparison of the Dutch and Swedish scenario showed a heavy influence of the lack of data on the production of Swedish maintenance products (see scenarios in § 6.4.1). Therefore, no conclusions can be based on the comparison of these maintenance systems, other than that maintenance is not negligible. Better data on maintenance products is needed before more conclusions can be drawn on the influence of maintenance.

In the stage "disposal " the emissions produced during incineration are important. However the figure of 100% incineration of used linoleum and the linoleum waste from Forbo-Krommenie B.V., is only an assumption. Therefore, a sensitivity analysis has been carried out in which the waste is not incinerated but landfilled (see 6.4.3). From this scenario followed that substitution of useful heat produced during the incinerating of linoleum with avoided electricity use shows the best environmental profile of the studied alternatives. Therefore incineration seems a better alternative than landfilling. However, this result should be considered with some care, because for landfilling average ETH-data was used. These are probably not very realistic for the landfill of linoleum.

Composition of linoleum

In the scenarios a number of variation in linoleum composition have been studied (see § 6.4.2). This showed that:

- The pigments used can have a large influence on environmental performance. However the data on pigments could not be checked for quality. Moreover, these data were not provided by the suppliers of the pigments and the representativeness of these data might be disputed. A more detailed analysis on this point focusing on the pigments which are actually used by Forbo-Krommenie B.V., aimed at finding pigments which are the most environment-friendly could be valuable.
- The 2.0 mm gauge has a considerably better environmental performance than the 2.5 mm gauge. On average, the results for this gauge are 15% lower. If the life span of both floors is comparable, Forbo-Krommenie B.V. might consider producing relatively more 2.0 mm products and advising their use on well-smoothed surfaces as a means of improving their environmental performance.
- Linoleum with tall oil has a better environmental profile than linoleum without tall oil because the use of linseed is lower (see also discussing before on linseed).
- Compared to the baseline 2.5 mm linoleum cork linoleum produces better results in most categories, but performs considerably worse in the categories "abiotic depletion " and "odour ". Were the gas use during drying and milling of cork-granulate reduced, it would improve the results for these categories.

Datagaps

The influence of capital goods is certainly not negligible. According to a very rough scenario leaving out capital goods may lead to an underestimation of 1-10% (see § 6.5). The influence of the missing chemicals could be even more substantial. According to a very rough scenario these data gaps may lead to an underestimation of 5-40% (see § 6.5). Therefore, the results should not be used to compare systems with different capital goods or different maintenance systems. The results of the study are applicable for analysis of the described systems only.

VOC

The result for "odour " and "depletion of the ozone layer " should be considered with some care, since the emissions of VOC from Forbo-Krommenie B.V., which play an important role in these impact categories, were not specified. From the scenario in § 6.4.4 followed that the individual VOC composition of the emission from Frobo-Kromenie B.V. can have a large influence the results for "odour".

7.3 Improvement options & advice for further studies

7.3.1 Options to improve environmental performance of Forbo-Krommenie B.V.

Raw material use

Forbo-Krommenie B.V. could improve their environmental performance on many impact categories by using linseed that is cultivated with less fertiliser and less pesticides. This seems a more promising option than reducing transportation distances for raw materials.

Energy use

Not surprisingly, saving on the use of electricity and gas is also an opportunity for improvement. This is an option or which Forbo-Krommenie B.V. is not dependent on its suppliers.

Composition of linoleum

The pigments used can have a large influence on environmental performance. A more detailed analysis on this point, aimed at finding pigments which are the most environment-friendly could be valuable.

The 2.0 mm gauge has a considerably better environmental performance than the 2.5 mm gauge. On average, the results for this gauge are 15% lower. If the life span of both floors is comparable, Forbo-

Krommenie B.V. might consider producing relatively more 2.0 mm products and advising their use on well-smoothed surfaces as a means of improving their environmental performance.

Linoleum with tall oil has a better environmental profile than linoleum without tall oil because the use of linseed is lower. Therefore, reduction of the amount of tall oil in favour of linseed oil does not improve environmental performance.

Compared to the baseline 2.5 mm linoleum cork linoleum produces better results in most categories, but performs considerably worse in the categories "abiotic depletion " and "odour ". Were the gas use during drying and milling of cork-granulate reduced, it would improve the results for these categories.

7.3.2 Advice for future studies on linoleum

We advice giving the following topics extra attention in future studies on linoleum, as the data on these topics is fragmented and their influence on the environmental profile of linoleum could be considerable:

- The production and use of maintenance products, especially the Swedish type
- The production and use of pigments other than TiO2. There is a great variety of possible pigments, but little information is available concerning their environmental performance. Our sensitivity analysis showed that the contribution of these pigments can be considerable.
- Emissions of individual VOC at the site of Forbo-Krommenie B.V.

Given the normative nature of evaluation and weighting, this step should be separated from the characterisation step (conform ISO), for transparency reasons and to show the effects of various assumptions. Therefore, we advise using a two step method for future LCA-studies on linoleum products. As no independent nationally or internationally authorised weighting sets are currently available, we advise using no weighting, if this not necessary.

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Appendices

Below the data sources per process are described. Information on suppliers is not published in this list.

P1: Production of 2,5 mm Marmoleum/Artoleum at FORBO-KROMMENIE B.V. (in M2)
Conversion of kg linoleum in m^2 linoleum and adding packaging and the additional "general" energy use and waste production

- data sources: annex 1: flowsheet linoleum production, 2 and 4 Forbo-Krommenie B.V.
- waste = not recycled packaging and domestic waste (annex 1: flowsheet linoleum production) => ETH-848: abfall in inertstoffdeponie

P2: Other yearly use of steam and electricity at Forbo-Krommenie B.V.
General energy use not related to one specific process in Forbo-Krommenie B.V.

- data electricity: annex 5 Forbo-Krommenie B.V. =14%; – 4% to recycling (Keuken & de Koning, 1997) = 10%
- data steam: Keuken & de Koning, 1997 (=soda inst. + heating buildings)

P3: Recycling scrap linoleum
Converting scrap linoleum from trimming at Forbo-Krommenie B.V. into reusable scrap:

- data electricity: Keuken & de Koning, 1997 = 4%, total use annex 5 Forbo-Krommenie B.V., see also P2
- data emission dust/particles: annex 6 Forbo-Krommenie B.V.
- remaining data: annex 1: flowsheet linoleum production, Forbo-Krommenie B.V.
- remaining linoleum waste is incinerated

P4 & P5: Production linoleum granulate lower & upper layer
Process taking place at Forbo-Krommenie B.V.-Krommenie. The reference amount is de total granulate production by Forbo-Krommenie B.V. in 1998

- data emission particles/dust and NMVOC: annex 6 Forbo-Krommenie B.V.
- data electricity: annex 5 Forbo-Krommenie B.V.
- remaining data: annex 1: flowsheet linoleum production, and 4 Forbo-Krommenie B.V.; see for calculations exel-file "berekening benodigde hoev grondstof"; In this file, the amounts needed for a certain type of linoleum are calculated based on the total inflow in 1998 (annex 1: flowsheet linoleum production) and the ratio between the materials in the final product (annex 4)

P6: Esterification of tall oil
Process taking place at Forbo-Krommenie B.V.-Krommenie. The reference amount is de total tall oil production by Forbo-Krommenie B.V. in 1998

- data electricity and use of gas: annex 5 Forbo-Krommenie B.V.
- data emission dust/particles: annex 6 Forbo-Krommenie B.V.
- remaining data: annex 1 Forbo-Krommenie B.V.

P7: Production of linoleum cement (oxidation)
Process taking place at Forbo-Krommenie B.V.-Krommenie. The reference amount is de total cement production by Forbo-Krommenie B.V. in 1998

- data electricity and use of gas: annex 5 Forbo-Krommenie B.V.
- data emission dust/particles and NMVOC: annex 6 Forbo-Krommenie B.V.
- data steam use: Keuken & de Koning, 1997
- remaining data: annex 1 Forbo-Krommenie B.V.
- waste (annex 1) => ETH-848: abfall in inertstoffdeponie

P8: Kalandering linoleum
Process taking place at Forbo-Krommenie B.V.-Krommenie. The reference amount is de total flow of linoleum from the kalanders at Forbo-Krommenie B.V. in 1998

- data electricity use: annex 5 Forbo-Krommenie B.V.

- data emission NMVOC: annex 6 Forbo-Krommenie B.V.
- data steam use: Keuken & de Koning, 1997
- remaining: annex 1 and 4 Forbo-Krommenie B.V.; see for calculations exel-file "berekening benodigde hoev grondstof"; In this file, the amounts needed for a certain type of linoleum are calculated based on the total inflow in 1998 (annex 1) and the ratio between the materials in the final product (annex 4)
- Granulate waste and jute waste are treated together as linoleum waste. This waste is burned and treated as "linoleum waste"(although the ration between jute and granulate is somewhat higher than the ratio jute/cement in the final product (annex 4)).

P9: Production of steam at Forbo-Krommenie B.V.

Proces taking place at Forbo-Krommenie B.V.-Krommenie. Reference amount is all steam produced and used by Forbo-Krommenie B.V. (100%) in 1998. Gas input is the gas use of the steam kettles

- data gas use:
  - ammount: annex 5 Forbo-Krommenie B.V.
  - process: ETH-427: Erdgas in Industriefeuerung >100kW Euro (aggregated process production and use of gas)
- data emission NO_x: annex 6 Forbo-Krommenie B.V.

P10: Electricity use at Forbo-Krommenie B.V.

Reference amount is all electricity used by Forbo-Krommenie B.V. (100%) in 1998. Input is electricity from the Dutch net.

- data electricity use:
  - amount: annex 5 Forbo-Krommenie B.V.
  - ETH-99: Strom Mittelspannung - Bezug in NL Import

P11: Drying of 2,5 mm Marmoleum/Artoleum

Process taking place at Forbo-Krommenie B.V.-Krommenie. The reference amount is de total amount of linoleum from the drying chambers at Forbo-Krommenie B.V. in 1998

- data electricity and use of gas: annex 5 Forbo-Krommenie B.V.
- data steam use: Keuken & de Koning, 1997
- data emission NMVOC: annex 6 Forbo-Krommenie B.V.
- remaining data: annex 1 Forbo-Krommenie B.V.

P12: Trimming of 2,5 mm Marmoleum/Artoleum

Process taking place at Forbo-Krommenie B.V.-Krommenie. The reference amount is de total amount of trimmed linoleum at Forbo-Krommenie B.V. in 1998

- data electricity use: annex 5 Forbo-Krommenie B.V.
- data steam use: Keuken & de Koning, 1997
- data emission NMVOC: annex 6 Forbo-Krommenie B.V. databronnen:
- data lacquer: annex 1 and 4 Forbo-Krommenie B.V.; see for calculations exel-file "berekening benodigde hoev grondstof"; In this file, the amounts needed for a certain type of linoleum are calculated based on the total inflow in 1998 (annex 1) and the ratio between the materials in the final product (annex 4)
- remaining data: annex 1 Forbo-Krommenie B.V.
- waste = remaining lacquer => ETH-849: abfall in reststoffdeponie

P13: Production + transport to Forbo-Krommenie B.V. of wood flour (milling)

Milling and transportation from the mill to Forbo-Krommenie B.V.. Reference amount is 1 kg wood flower

- ratio between suppliers to Forbo-Krommenie B.V. known
- all data received from suppliers via Forbo-Krommenie B.V.
- data use of electricity:
  - amount: weighted average suppliers
  - process: ETH-102: Strom Mittelspannung - Bezug in UCPTE

- data transportation distance: weighted average distance from plant suppliers to Forbo-Krommenie B.V.
- ratio raw wood/wood reminders: information from one supplier only

P14 & P15: Sawing of raw wood

- ratio between suppliers to Forbo-Krommenie B.V. known
- allocation between wood remainders and production wood is based on data on economic value provided by Forbo-Krommenie B.V. (value produced wood remainders = 15%)
- all data received from suppliers via Forbo-Krommenie B.V.
- data electricity use: data form one supplier only
- ratio use production wood/wood remainders: data from one supplier only

P16: Forestry (production of wood)+ transport to mill

Production of wood + transportation to the sawmill

- ratio between suppliers to Forbo-Krommenie B.V. known
- all data received from suppliers via Forbo-Krommenie B.V.
- no fertiliser use (although one supplier mentions the use of P)
- data for use of diesel: date from one supplier only
- transportation distance forest to mill: weighted average suppliers

P17: Production of linseed oil and transport to Forbo-Krommenie B.V.

- ratio between suppliers to Forbo-Krommenie B.V. known
- allocation between linseed oil and linseed expellers is based on data on economic value provided by one supplier (price) and all suppliers (amount produced, all give the same produced amount per kg linseed; value produced inseed oil = 57%)
- all data received from suppliers via Forbo-Krommenie B.V.
- data use of gas:
  - amount: data from the largest provider for Forbo-Krommenie B.V.. In this case not the weighted average is chosen because the energy type of other supplier(s) is not known.
  - process: ETH-427: Erdgas in Industriefeuerung >100kW Euro (aggregated process production and use of gas)
- the amount linseed oil produced from 1 kg linseed: weighted average suppliers. All give the same amounts for linseed oil and expellers
- transport by inland freighter is based on a weighted average of suppliers of the transportation distance from plant to Forbo-Krommenie B.V. (=184.5e-3 tkm x 0.33) + the transportation distance from the harbour to the plant (= 154e-3 tkm).

P18: Growing of linseed

Worse case scenario for pesticide emissions: assumption all mentioned pesticides are used and all in the maximal dose.

- suppliers to Forbo-Krommenie B.V. known, ratio not known
- all data received from suppliers via Forbo-Krommenie B.V.
- transportation of seed by truck in India, by sea freighter and by inland freighter in Europa is based on the average distances of suppliers; transport by truck can also partly be done by train (Linora has a transportation distance in Europe of 0 km by inland freighter because they are situated in the harbour)
  - use of diesel: average suppliers (0.429 MJ & 1.74 MJ).
  - use of N- and P-fertiliser: average suppliersl
  - use of fertiliser S: one supplier (not accounted for, treated as datagap (S is not mentioned by other supplier(s)
- use of pesticides: herbicides: one supplier, insecticides: another supplier
  The amount used is the maximal amount in the worse case scenario (in P113 the best estimate for pesticide use is used, based on the assumption that on 20% of the fields one herbicide and one pesticide is used (based on e-mail supplier). The total amount used is seen as an emission. Division of the emissions over water/air/soil based on the MJP-G emission evaluation.

- emissions of NH3 and N2O to air are based on the assumption that 1 % of the applied fertiliser evaporates as NH3 and 1% as N2O to air (Välimaa & Stadig, 1998). The weights are adapted to the molecular weight of the substances. The emission of N to soil is based on the difference between the dose of N-fertiliser and the estimated amount harvested in the linseed minus the amount emitted to air.

P19: Transport, spinning and weaving of jute

Including all transportation of yarn and jute in India and Europe

- ratio between suppliers to Forbo-Krommenie B.V. known
- all data received from suppliers via Forbo-Krommenie B.V.
- data use of electricity for spinning: one supplier (these are the only data on spinning): 1.44 MJ
- data use of electricity for weaving: weighted average all suppliers who gave realistic information on this: 1MJ, unrealistic high value for electricity use was not used
- data use of gas for weaving: one supplier
- data use of oil for weaving: not known, therefore not included (some suppliers mention the use of oil but give no, or unrealistic high values)
- Transportation per sea freighter India-Rotterdam: one supplier (other companies give no data for transportation from India to Europe)
- Transportation in India per truck: one supplier 425 km (other companies give no data for transportation in India)
- Transportation in Europe per truck: 375 km (based on a weighted average of the transportation distances given by all suppliers
- re-usable jute waste 2%: two suppliers (both give the same value)
- other waste 1,5%: one supplier (based on a total waste of 3,5% of which 2% is re-usable, see before) => ETH-848: abfall in inertstoffdeponie
- use of starch, oil and salt: one supplier (this supplier gave besides answer to our questions also their environmental report, therefore there data are more complete than those of the other companies)

P20: Transport raw rosin from plantation, extraction and transport to Forbo-Krommenie B.V.

- all data received from suppliers via Forbo-Krommenie B.V.
- Ratio for suppliers not known, therefore unweighted averages are used
- allocation between linseed oil and linseed expellers is based on data on economic value provided by suppliers (both give approx. the same economic value: value produced gum rosin= 91%)
- transportation in Indonesia by truck: average of the figures of suppliers (very rough estimation
- transportation Amsterdam – Krommenie: 20 km
- average distance Indonesia – Amsterdam by sea freighter: summary data Forbo-Krommenie B.V. 1997 (1999 data not reliable)
- production of rosin and terpentine, input of raw rosin: twol suppliers 1999 (both give the same figures)
- use middle fuel oil: one supplier

P21: Mining of limestone

- data from only one supplier available (via Forbo-Krommenie B.V.)
- data sources: only use diesel:
- *alternative possibility: ETH, not tried because of lack of time*

P22: Grinding + transport of limestone

- data source: all data from one supplier (via Forbo-Krommenie B.V.)
- assumption: emission from particles are due to grinding
- waste => ETH-848: abfall in inertstoffdeponie
- assumption oil = middle fuel oil

P23 & 24: Transport of tall oil and paper

Based on the location of the only supplier for tall oil

- transport by truck, 125 km Rotterdam- Krommenie: estimation

- transport by sea freighter: supplier, 1999 (via Forbo-Krommenie B.V.)
- transport by train, supplier – harbour: supplier, 1999 (via Forbo-Krommenie B.V.)
- data on the production process of paper (and tall oil) from ETH (ETH-184), data from supplier seem not complete

P25, P26 & P27: Production of TiO_2

- data sources:
  - P25: PE Germany, these data are most complete because they are aggregated data including mining, transportation, energy use etc.
  - P26: sulphate process:
    - all data received from suppliers via Forbo-Krommenie B.V. (ratio known)
    - sulfuric acid and Ti-ore: weighted average suppliers
    - use of gas, emissions NO_x, heavy metals & Tio_2: main supplier
    - transport by truck & solid waste: one supplier
    - transport Ti-ore very rough estimation (based on ore from Norway)
- P27, chloride process: data from one supplier (via Forbo-Krommenie B.V.)
- waste => ETH-848: abfall in inertstoffdeponie

P28: Burning Linoleum

- the production of usefull energy is substituted by electricity (ETH-99: Strom Mittelspannung - Bezug in NL Import).
- The exchange rate is assumed 0.4 MJ/MJ
- waste => ETH-848: abfall in inertstoffdeponie
- assumption: transportation distance to incinerator: 100 km.

P29: production of starch

- data source: Spin 1994
- *data not complete: date concerning the use of raw materials (potatos cereals) are lacking*
- *note the amounts of water emissions (sulphate as S, salt as CL^-, etc.)*
- *data concerning waste are a rough estimation (mostly terra and slug)*

P30, 31, 120, 121 & 122: production lacquer, adhesives and maintenance products

- data sources: one supplier (via Forbo-Krommenie B.V.)
- data concerning the production of raw materials (additives, thickeners, solvents and wax-dispersions) are not available.
- assumtion 1 l product = 1 kg

chemical waste => ETH-849: abfall in reststoffdeponie

P32, 33, 34 & 37: Production of fertiliser

- aggregated data including transport
- data: Davis & Hagland, 1999
- assumption: emissions resulting from the use of energy carriers are included in Davis & Hagland, interventions related to the production of these energy carriers are not included, Therefor the related ETH-processes are added.
  energy content of diesel, oil and cole are from BINAS, weight oil and diesel from ETH.
- waste:
  - radioactive waste => ETH-631:radioactiver abfall in depot C
  - hazardous waste => abfall in reactor deponie (50% ETH-884: Kunststoffe in Reaktordeponie & 50% ETH-870: Holz in Reaktordeponie)
  - industrial waste => ETH-848: Abfaelle in Inertstoffdeponie
  - solid waste => ETH-848: Abfaelle in Inertstoffdeponie

P35: Linoleum installation (2,5 mm)

Inputs and outputs related to installation of linoleum

- assumption: 6% of the linoleum is wasted during installation (see Potting & Blok, 1993)

- waste = 6% linoleum + packaging + marmoweld (small fraction) => not burned but landfilled: ETH-848: Abfaelle in Inertstoffdeponie
- assumption: transportation distance = 100 km in NL (=0.29 tkm)
- use of adhesives and other product from suppliers (via Forbo-Krommenie B.V.)

P36: The use and maintenance of 1m2 linoleum for 20 years
- Maintenance and use of products is based on information from Forbo-Krommenie B.V.
- all linoleum is considered to be burned after 20 years

P38 –83 & 85: ETH-processes
datasource: ETH 1996
Transportation by truck is assumed to take place with 40t trucks

P84: Production of raw gum resin
Empty process, according to Forbo-Krommenie B.V., the harvesting of raw gum rosin is done mainly by hand.

P86 & P87: production of tall oil (and paper)
- allocation between those two products based on data on economic value provided by Forbo-Krommenie B.V.
- value produced tall oil= 1%

P88 –P90: Production of DouPol, InterClean & DuoClean
- data sources: one supplier (via Forbo-Krommenie B.V.)
- chemical waste = ETH-849: Abfaelle in Reststoffdeponie

P91: Translation NMVOC based on the emissions during stationary combustion
- data source: Hauschild & Wenzel (1998)

P92: growing of linseed (best estimate)
- See P18 for data
- assumption 20% of the fields one herbicide and one pesticide is used.

P93 –P96: Production of detergents
- Selection of three detergents
- Data from Stalmans *et al.* (1995)

P97-P103, P60, P137 & P141: Maintenance options for linoleum
- data for P97-P103: Forbo-Krommenie B.V.
- data for P137-P141: Forbo-Krommenie B.V.-Forshaga, Fax 9 July 1999.

P104: Production of Marmoweld
- data source: one supplier (via Forbo-Krommenie B.V.)
- chemical waste => ETH-849: Abfaelle in Reststoffdeponie

P105-P108: Production of ingredients for maintenance products, adhesive etc.
- data source:one supplier (via Forbo-Krommenie B.V.)
- chemical waste = ETH-849: Abfaelle in Reststoffdeponie
- solid waste = ETH-848: Abfaelle in Inertstoffdeponie

P109: Production of yarn
Empty process, according to Forbo-Krommenie B.V., the growing and harvesting of yarn is done mainly by hand

P110-P129: copies of ETH processes and NMVOC translation
These are needed to split the total system into four different stages: production of raw materials, production of linoleum at Forbo-Krommenie B.V., use and maintenance, disposal

P130: Translation NMVOC based on the emissions during solvent use

- data source: Hauschild & Wenzel (1998)
- used as an estimation for the emission of NMVOC at Forbo-Krommenie B.V.

P131: SWEDISH SCENARIO: The use and maintenance of 1m2 2,0 mm linoleum for 20 years and the disposal
Differences with P36 based on the Swedisch maintenance (information Forbo-Krommenie B.V.-Forshaga, Fax 9 July 1999) and the difference in weight between 2, 5 mm and 2,0 mm linoleum

P132: SWEDISH SCENARIO: *linoleum installation (2,0 mm)*
Difference with P35 are due to the transportation distance and the difference in weight between 2, 5 mm and 2,0 mm linoleum

- assumption transportation to Sweden: 1000 km by freighter and 1000 km by truck

P133-P136: SWEDISH SCENARIO:
Difference with P1, P8, P11 and P12 are due to the difference in weight and relative composition between 2, 5 mm and 2,0 mm linoleum see annex 4 and see for calculations exel-file "berekening benodigde hoèv grondstof"

P142-P148: Scenario Cork- linoleum
Difference with P4, P5, P8, P11, P12, P35 & P36 are due to the difference in weight and relative composition between 2, 5 mm and Cork-linoleum see annex 4 and see for calculations exel-file."berekening benodigde hoev grondstof"

P149: Seaving cork
Reference flow is total amount of cork sieved in 1998 at Forbo-Krommenie B.V.

- data electricity use: annex 5 Forbo-Krommenie B.V.
- data emission dust: annex 6 Forbo-Krommenie B.V.

P150: transportation of cork to mill, milling and transportation to Forbo-Krommenie B.V. of cork granulate

- data from the main supplier
- Note: cork granulate is a by-product of corks used for bottles etc. However nothing is known of the production of this main product.
- Data on energy use from supplier (via Forbo-Krommenie B.V.)
  It is assumed that the energy mentioned by supplier used for drying is all used for the production of the granulate and not for corks, as these are not mentioned by the suppliers and the cork granulate is explicitly mentioned as the product by supplier.
- The transportation of the cork granulate to the Portuguese harbour and to Forbo-Krommenie B.V. is based on the average values from all suppliers (via Forbo-Krommenie B.V.). + 60 km for transportation in the Netherlands (estimation)
- The transportation from the woods to the mill is "allocated" based on mass (assuming that 1 kg cork from the woods results in corks and cork granulate without much waste), as economic values of corks and cork-granulate is not known. Distance between the woods and the mill is based on the average data from all suppliers (via Forbo-Krommenie B.V.).

P151-P153: SCENARIO USA

- an assumption is made about the extra transportation distance per boat and truck

P154-P162: SCENARIO NO TALL OIL

Production of linoleum cement (oxidation) without tall oil. Process taking place at Forbo-Krommenie B.V.-Krommenie. The reference amount is de total cement production by Forbo-Krommenie B.V. in 1998

- data on ratio linseed oil / resin: annex 4 and 4a Forbo-Krommenie B.V.
- data electricity and use of gas: annex 5 Forbo-Krommenie B.V.
- data emission dust/particles and NMVOC: annex 6 Forbo-Krommenie B.V.
- data steam use: Keuken & de Koning, 1997
- remaining data: annex 1 Forbo-Krommenie B.V.

P163-P164: Dutch 2.0 mm

- data from the production of 2.0 mm (Swedish scenario) combined with installation, use and, maintenance in the Netherlands

P164-P166: Production of Yellow and Red pigment

- Aggregated data on the production of two pigments, data from CE

P167: Production of organic chemical

- Transportation by truck based on the assumption that the distance from production site to user is 100 km
- other data from ETH: production of organic chemical

P168: Production of capital goods

- estimation of the yearly investments in capital goods of Forbo-Krommenie B.V. of the yearly production in fl.
- emissions and environmental inputs per 1e6 $ from Carnegie Mellon. internet-site
- hazardous waste: => abfall in reactor deponie (50% ETH-884: Kunststoffe in Reaktordeponie & 50% ETH-870: Holz in Reaktordeponie)
- conversion $ => fl. based on the values of 25/4/2000

Annex 1 Forbo-Krommenie B.V.: Flowsheet linoleum production 1998
Annex 2 Forbo-Krommenie B.V.: mass balance linoleum production
Annex 4 Forbo-Krommenie B.V.: composition linoleum 2.0 mm, 2.5 mm, linoleum without tall oil, cork-linoleum and bulletin board
Annex 5 Forbo-Krommenie B.V.: Energy use Forbo-Krommenie B.V.: 1998
Annex 6 Forbo-Krommenie B.V.: Emissions to air Forbo-Krommenie B.V. 1998

Appendix B. Intervention tables

Environmental flow	BAseline (Dutch)	Swedish	Cork	Unit
[E16] cobalt (Co) from earth resources	-3.16E-06	-2.67E-06	-3.06E-06	kg
[E17] copper (Cu) from earth resources	-0.7435	-0.74809	-0.66445	kg
[E18] chromium (Cr) from earth resources	-0.26267	-0.35548	-0.23928	kg
[E33] iron (Fe) from earth resources	-150.33	-149.98	-129.96	kg
[E38] lead (Pb) from earth resources	-0.8873	-1.3594	-0.83331	kg
[E41] manganese (Mn) from earth resources	-0.092737	-0.12201	-0.083536	kg
[E43] molybdenum (Mo) from earth resources	-2.90E-06	-1.95E-06	-2.85E-06	kg
[E46] nickel (Ni) from earth resources	-0.15328	-0.20956	-0.14015	kg
[E49] palladium (Pd) from earth resources	-5.53E-07	-7.91E-07	-5.19E-07	kg
[E50] phosphorus (P) from earth resources	-16.445	-12.495	-11.692	kg
[E51] platinum (Pt) from earth resources	-6.59E-07	-9.49E-07	-6.20E-07	kg
[E57] rhenium (Re) from earth resources	-4.93E-07	-6.90E-07	-4.63E-07	kg
[E58] rhodium (Rh) from earth resources	-5.94E-07	-8.52E-07	-5.59E-07	kg
[E65] silver (Ag) from earth resources	-0.0046019	-0.0040948	-0.0043543	kg
[E68] sulfur (S) from earth resources	-27.031	-9.5491	-27.031	kg
[E75] tin (Sn) from earth resources	-0.0025542	-0.002271	-0.0024167	kg
[E78] uranium (U) from earth resources	-0.051527	-0.038311	-0.0394	kg
[E83] zinc (Zn) from earth resources	-0.023439	-0.03648	-0.021899	kg
[E85] oil crude from earth resources	-1602	-1427.7	-1610.1	kg
[E86] natural gas from earth resources	-1174.8	-784.1	-2040.2	m3
[E87] coal soft from earth resources	-1148.5	-713.99	-1181.9	kg
[E88] coal hard from earth resources	-529.61	-391.07	-371.26	kg
[E90] 1,1,1-trichloroethane (methyl chloroform; HC-140a) to air	0.11022	0.085923	0.11954	kg
[E97] 1,2,3-Trimethyl Benzene to air	0.19434	0.18674	0.18891	kg
[E100] 1,2,4-trimethylbenzene to air	0.23057	0.21499	0.22821	kg
[E109] 1,3,5-trimethylbenzene (mesitylene) to air	0.20222	0.19288	0.19746	kg
[E123] 1-Butyl Acetate to air	0.025271	0.0197	0.027408	kg
[E130] 1-Decane to air	0.069229	0.053968	0.075081	kg
[E131] 1-Dodecane to air	0.086402	0.067355	0.093707	kg
[E134] 1-Heptane to air	0.037392	0.029149	0.040553	kg
[E137] 1-Hexane to air	0.057614	0.044913	0.062485	kg
[E141] 1-Nonane to air	0.080836	0.063016	0.08767	kg
[E143] 1-Octane to air	0.028805	0.022455	0.031241	kg
[E147] 1-Pentane to air	0.014401	0.011226	0.015618	kg
[E150] 1-Propyl Benzene to air	0.19025	0.18339	0.18458	kg
[E154] 1-Undecane to air	0.086402	0.067355	0.093707	kg
[E168] 2,3,7,8-TCDD (tetrachloride-dibenzo-dioxin) to air	7.49E-10	7.09E-10	6.12E-10	kg
[E182] 2.3- Dimethylbutane to air	0.020225	0.015767	0.021935	kg
[E199] 2-Methylheptane to air	0.063408	0.04943	0.068768	kg
[E200] 2-Methylhexane to air	0.017201	0.013409	0.018655	kg
[E201] 2-Methylnonane to air	0.040416	0.031507	0.043833	kg
[E202] 2-Methyloctane to air	0.026012	0.020278	0.028211	kg
[E203] 2-Methylpentane to air	0.051797	0.040378	0.056175	kg
[E223] 3-Methylhexane to air	0.014408	0.011232	0.015626	kg
[E224] 3-Methylpentane to air	0.037392	0.029149	0.040553	kg
[E232] Acetaldehyde (ethanal) to air	0.001233	0.0009408	0.0009588	kg
[E233] Acetic acid to air	0.0096433	0.0069185	0.012838	kg
[E234] Acetone (2-propanon) to air	0.11139	0.086818	0.1204	kg

[E235] Acetylene to air	0.72736	0.70768	0.70128 kg
[E236] Acrolein (2-propenal) to air	1.06E-06	1.05E-06	9.63E-07 kg
[E239] aldehydes (unspec.) to air	4.00E-05	2.96E-05	2.84E-05 kg
[E242] alkanes (unspec.) to air	0.047882	0.039719	0.043909 kg
[E243] alkenes (unspec.) to air	0.0022927	0.0017444	0.00137 kg
[E249] ammonia, ammonium to air	21.408	16.266	15.22 kg
[E252] antimony to air	0.0029855	0.002347	0.002986 kg
[E253] aromatics (unspecified) to air	0.0015145	0.0010898	0.0013002 kg
[E254] arsenic to air	0.0078946	0.0064217	0.0078653 kg
[E258] barium to air	0.000547	0.0003929	0.0004062 kg
[E261] Benzaldehyde to air	5.53E-07	5.50E-07	5.03E-07 kg
[E262] Benzene to air	1.5063	1.4696	1.4633 kg
[E264] benzo[a]pyrene to air	3.54E-05	2.64E-05	3.33E-05 kg
[E269] beryllium to air	1.11E-05	8.22E-06	8.20E-06 kg
[E286] butane (unspec.) to air	0.1652	0.13447	0.18827 kg
[E384] cadmium to air	0.0059176	0.0047136	0.0059012 kg
[E392] Carbon dioxide to air	7254.8	5839.8	8938.5 kg
[E394] Carbon Monoxide to air	57.156	47.533	90.837 kg
[E397] CFC-11, to air	1.25E-05	9.09E-06	8.19E-06 kg
[E399] CFC-114 to air	0.000423	0.0003144	0.0003058 kg
[E401] CFC-12 to air	2.69E-06	1.96E-06	1.76E-06 kg
[E402] CFC-13 to air	1.68E-06	1.22E-06	1.10E-06 kg
[E411] chlorpyriphos to air	0.013647	0.010369	0.0097026 kg
[E412] chromium (unspecified) to air	0.0033873	0.0026978	0.0032314 kg
[E420] cobalt to air	0.0011762	0.0009416	0.0010649 kg
[E421] copper to air	0.040295	0.02905	0.039852 kg
[E425] Cyanides to air	8.48E-05	6.68E-05	7.55E-05 kg
[E440] deltamethrin to air	3.70E-05	2.81E-05	2.63E-05 kg
[E448] Dichloromethane (Methylene Chloride) to air	0.087648	0.068326	0.095056 kg
[E460] dimethoate to air	0.0056904	0.0043235	0.0040457 kg
[E468] Dinitrogen oxide (nitrous oxide) to air	30.384	23.159	21.622 kg
[E482] Ethane to air	3.2256	3.056	3.2881 kg
[E484] Ethanol to air	0.40033	0.31205	0.43337 kg
[E487] Ethyl Acetate to air	0.043323	0.033773	0.046986 kg
[E495] Ethylbenzene to air	0.22002	0.20704	0.21555 kg
[E498] Ethylene (ethene) to air	3.3703	3.5362	3.24 kg
[E500] Ethylene Dichloride to air	0.0001221	8.44E-05	0.0001518 kg
[E510] Formaldehyde (methanal) to air	3.6656	3.5582	3.5377 kg
[E515] glyphosate to air	0.0017776	0.0013506	0.0012638 kg
[E520] HALON-1301 to air	0.0005758	0.0005186	0.0005448 kg
[E528] HCFC-22 (Chlorodifluormethane) to air	2.98E-06	2.17E-06	1.99E-06 kg
[E533] heptane to air	0.028313	0.024539	0.026862 kg
[E536] hexachlorobenzene to air	4.56E-09	5.10E-09	4.13E-09 kg
[E544] HFC-134a (1,1,1,2-tetrafluoroethane) to air	-7.32E-17	-4.97E-17	-1.33E-16 kg
[E559] hydrogen chloride to air	1.3237	1.0317	1.3006 kg
[E560] hydrogen fluoride to air	0.15508	0.12061	0.14523 kg
[E561] hydrogen sulfide to air	0.049989	0.034578	0.06183 kg
[E570] isobutyl acetate to air	0.031468	0.024531	0.034128 kg
[E573] isopentane to air	0.0085869	0.0066939	0.0093128 kg
[E577] isopropyl acetate to air	0.019481	0.015187	0.021128 kg
[E578] isopropyl benzene (cumene) to air	0.18729	0.18142	0.18117 kg
[E581] lead to air	0.15153	0.12166	0.15189 kg

[E584] malathion to air	0.018935	0.014386	0.013462 kg
[E585] Mangane to air	0.045489	0.037225	0.044606 kg
[E586] MCPA to air	0.0037265	0.0028313	0.0026494 kg
[E588] mercury to air	0.0031749	0.0024938	0.0031691 kg
[E590] meta-Ethyltoluene to air	0.19987	0.19105	0.19492 kg
[E592] meta-Xylene (1,3-dimethylbenzene) to air	0.24148	0.22349	0.24004 kg
[E596] Methane to air	24.552	17.966	26.609 kg
[E598] Methanol to air	0.062396	0.048629	0.066711 kg
[E599] methomyl to air	0.0065717	0.0049931	0.0046723 kg
[E600] Methyl Acetate to air	0.011298	0.0088071	0.012253 kg
[E608] Methyl Ethyl Ketone to air	0.19977	0.15573	0.21666 kg
[E611] Methyl Isobutyl Ketone (4-methylpentanon-2) to air	0.068888	0.053702	0.074711 kg
[E619] Methyl trans-Butyl Ether to air	7.41E-05	0.0001159	6.96E-05 kg
[E627] molybdenum to air	0.0002665	0.0002209	0.0002134 kg
[E630] nickel to air	0.010368	0.0091329	0.0090703 kg
[E634] nitrogen to air	0.33587	0.22525	0.57431 kg
[E637] nitrogen oxides to air	37.382	37.059	39.359 kg
[E642] ortho-Ethyltoluene to air	0.20072	0.19171	0.19583 kg
[E643] ortho-Xylene (1,2-dimethylbenzene) to air	0.22227	0.20852	0.21921 kg
[E647] para-Ethyltoluene to air	0.19988	0.19106	0.19492 kg
[E651] para-Xylene (1,4-dimethylbenzene) to air	0.24061	0.22264	0.2392 kg
[E653] pentachlorobenzene to air	1.22E-08	1.36E-08	1.10E-08 kg
[E655] pentachlorophenol to air	1.97E-09	2.20E-09	1.78E-09 kg
[E660] Perfluoroethane (CFC-116) to air	5.71E-05	8.26E-05	5.02E-05 kg
[E662] Perfluoromethane (CFC-14) to air	0.0005136	0.0007435	0.0004517 kg
[E665] permethrin to air	0.0005539	0.0004209	0.0003938 kg
[E668] Phenol to air	5.29E-06	2.78E-06	4.19E-06 kg
[E671] Phosphorus to air	0.0006957	0.0005796	0.0005622 kg
[E676] PM10 to air	6.8834	5.9896	7.8811 kg
[E677] Polycyclic Aromatic Hydrocarbons (PAH) (unspecified) to air	0.0005312	0.0004486	0.0007896 kg
[E680] Propane to air	0.20094	0.15927	0.24263 kg
[E681] Propanoic acid (propionic acid) to air	0.0006523	0.0004381	0.0012385 kg
[E682] Propionaldehyde (propanal) to air	5.53E-07	5.50E-07	5.03E-07 kg
[E686] Propylene to air	0.73645	0.71683	0.70988 kg
[E697] selenium to air	0.0015874	0.0013327	0.0014367 kg
[E702] sulphur dioxide to air	41.229	34.083	46.494 kg
[E703] Sulphur hexafluoride to air	3.38E-06	2.56E-06	2.40E-06 kg
[E711] tetrachloroethylene (PER) (tetrachloroethene) to air	0.095065	0.074108	0.1031 kg
[E712] Tetrachloromethane (carbon tetrachloride) (HC-10) to air	3.03E-05	2.10E-05	3.71E-05 kg
[E715] thallium to air	4.17E-06	3.07E-06	3.17E-06 kg
[E717] tin to air	0.017938	0.014104	0.018044 kg
[E720] Toluene to air	0.67142	0.59426	0.68648 kg
[E729] trichlorfon to air	0.0088882	0.0067531	0.0063192 kg
[E730] Trichloroethylene (tri) to air	0.10667	0.083157	0.11569 kg
[E731] Trichloromethane (chloroform) to air	3.22E-06	2.23E-06	4.01E-06 kg
[E736] vanadium to air	0.028781	0.02507	0.024776 kg
[E738] Vinyl Chloride (chloroethene) to air	1.99E-05	1.37E-05	2.47E-05 kg
[E741] zinc to air	0.049842	0.063005	0.046987 kg
[E743] 1,1,1-trichloroethane to air	9.90E-07	1.55E-06	9.31E-07 kg
[E772] ammonia, ammonium to fresh water	0.12186	0.10656	0.11161 kg
[E775] antimony to fresh water	0.045258	0.040636	0.044124 kg
[E776] arsenic to fresh water	0.00292	0.0016916	0.0023658 kg

[E780] barium to fresh water	0.29769	0.23175	0.26625 kg
[E783] benzene to fresh water	0.0098211	0.0089104	0.0094359 kg
[E791] Biological Oxygen Demand (BOD) to fresh water	0.0020506	0.0016212	0.0034845 kg
[E792] Borium to fresh water	0.0019806	0.0017887	0.0015409 kg
[E794] cadmium to fresh water	0.0054054	0.0048521	0.0043737 kg
[E802] Chemical oxigen demand (COD) to fresh water	1.3879	1.1939	1.2867 kg
[E806] Chlorine to fresh water	127.88	114.33	166.99 kg
[E807] chlorobenzene to fresh water	3.84E-09	6.07E-09	3.63E-09 kg
[E810] chlorpyriphos to fresh water	6.50E-05	4.94E-05	4.62E-05 kg
[E811] chromium III to fresh water	0.015471	0.009258	0.012726 kg
[E812] chromium VI to fresh water	8.06E-06	6.10E-06	5.68E-06 kg
[E814] cobalt to fresh water	0.0028391	0.0016195	0.0022961 kg
[E815] copper to fresh water	0.008216	0.0050571	0.0066519 kg
[E821] deltamethrin to fresh water	9.64E-07	7.33E-07	6.86E-07 kg
[E824] Di(2-ethylhexyl)phtalate to fresh water	1.31E-08	1.56E-08	1.40E-08 kg
[E826] Dibutylphtalate to fresh water	1.72E-08	7.69E-09	3.78E-08 kg
[E835] dimethoate to fresh water	2.69E-05	2.05E-05	1.92E-05 kg
[E836] Dimethylphtalate to fresh water	1.08E-07	4.81E-08	2.37E-07 kg
[E846] ethylbęnzene to fresh water	0.0017412	0.0015808	0.0016458 kg
[E855] Formaldehyde (methanal) to fresh water	1.42E-06	2.09E-06	1.31E-06 kg
[E856] glyphosate to fresh water	0.0001516	0.0001152	0.0001078 kg
[E861] hydrogen sulfide to fresh water	0.0010726	0.000638	0.0010335 kg
[E865] lead to fresh water	0.011849	0.0085415	0.010118 kg
[E868] malathion to fresh water	7.77E-05	5.90E-05	5.52E-05 kg
[E869] mangane to fresh water	0.03632	0.022695	0.029637 kg
[E870] MCPA to fresh water	0.0001624	0.0001234	0.0001155 kg
[E872] mercury to fresh water	1.23E-05	1.09E-05	1.35E-05 kg
[E876] methomyl to fresh water	5.01E-05	3.81E-05	3.56E-05 kg
[E882] molybdenum to fresh water	0.0046464	0.0028464	0.0036547 kg
[E885] nickel to fresh water	0.0075558	0.0044645	0.0061394 kg
[E886] Nitrate to fresh water	0.17294	0.21881	0.15077 kg
[E887] Nitrites to fresh water	0.0023119	0.0017155	0.0016562 kg
[E888] Nitrogen to fresh water	0.13044	0.11989	0.12352 kg
[E898] permethrin to fresh water	1.45E-05	1.10E-05	1.03E-05 kg
[E900] phenol to fresh water	0.010866	0.009833	0.01097 kg
[E901] Phosphate to fresh water	0.090854	0.053482	0.073737 kg
[E902] Phosphorus to fresh water	0.054532	0.041434	0.038792 kg
[E914] sulphates to fresh water	27.741	20.561	35.938 kg
[E915] sulphur dioxide to fresh water	0.003465	0.0030096	0.0032144 kg
[E916] tetrachloroethylene (PER) to fresh water	1.66E-07	1.14E-07	2.06E-07 kg
[E917] Tetrachloromethane (carbon tetrachloride) to fresh water	2.53E-07	1.75E-07	3.14E-07 kg
[E920] tin to fresh water	0.000594	0.0004506	0.0004186 kg
[E922] toluene to fresh water	0.0081126	0.0073558	0.0078049 kg
[E925] tributyltinoxide to fresh water	0.0003989	0.0003822	0.0003806 kg
[E926] trichlorfon to fresh water	0.0001163	8.84E-05	8.27E-05 kg
[E927] Trichloroethylene (tri) to fresh water	1.05E-05	7.23E-06	1.30E-05 kg
[E928] Trichloromethane=chloroform to fresh water	3.84E-05	2.65E-05	4.77E-05 kg
[E930] vanadium to fresh water	0.0075229	0.004374	0.0060531 kg
[E931] Vinyl Chloride (chloroethene) to fresh water	4.70E-08	3.25E-08	5.84E-08 kg
[E932] zinc to fresh water	0.028126	0.020642	0.023242 kg
[E1185] chlorpyriphos to agricultural soil	0.011104	0.0084366	0.0078945 kg
[E1196] deltamethrin to agricultural soil	0.0003298	0.0002506	0.0002345 kg

[E1210] dimethoate to agricultural soil	0.0046329	0.0035201	0.0032939	kg
[E1231] glyphosate to agricultural soil	0.027697	0.021044	0.019692	kg
[E1242] malathion to agricultural soil	0.01541	0.011708	0.010956	kg
[E1243] MCPA to agricultural soil	0.058163	0.044192	0.041352	kg
[E1249] methomyl to agricultural soil	0.0053631	0.0040748	0.003813	kg
[E1268] permethrin to agricultural soil	0.0049602	0.0037688	0.0035266	kg
[E1292] trichlorfon to agricultural soil	0.035502	0.026974	0.025241	kg
[E1333] arsenic to agricultural soil	4.53E-05	3.82E-05	5.01E-05	kg
[E1349] cadmium to industrial soil	1.38E-05	1.20E-05	1.12E-05	kg
[E1364] chromium III to industrial soil	0.0005669	0.0004785	0.0006268	kg
[E1367] cobalt to industrial soil	1.95E-06	1.75E-06	1.84E-06	kg
[E1368] copper to industrial soil	9.74E-06	8.73E-06	9.21E-06	kg
[E1417] lead to industrial soil	4.64E-05	4.14E-05	4.35E-05	kg
[E1423] mercury to industrial soil	3.23E-07	2.71E-07	3.06E-07	kg
[E1436] nickel to industrial soil	1.46E-05	1.31E-05	1.38E-05	kg
[E1476] zinc to industrial soil	0.001797	0.0015212	0.0019713	kg
[E1478] Barit ab Erz to industrial soil	-8.5448	-7.245	-9.5006	kg
[E1479] Bauxit to industrial soil	-11.922	-12.876	-16.103	kg
[E1480] Bentonit ab Erz to industrial soil	-694.45	-528.02	-494.17	kg
[E1481] dolomite to industrial soil	-157	-119.29	-111.62	kg
[E1482] Erdoelgas to industrial soil	-101.24	-91.078	-95.779	Nm3
[E1483] flussspat to industrial soil	-0.11539	-0.091303	-0.19857	kg
[E1484] Grubengas (Methan) to industrial soil	-9.8096	-6.0786	-8.609	kg
[E1485] Holz to industrial soil	-0.29977	-0.23283	-0.27084	t
[E1486] Kalkstein vor Abbau to industrial soil	-355.43	-317.28	-408.28	kg
[E1488] Kies vor Abbau to industrial soil	-2400.7	-3171.6	-2146.6	kg
[E1489] quarzsand to industrial soil	-10.706	-8.4714	-18.424	kg
[E1490] Sand vor Abbau to industrial soil	-699.21	-529.11	-529.33	kg
[E1491] Space Benthos II-III to industrial soil	-133.97	-114.23	-149.93	m2a
[E1492] Space Benthos II-IV to industrial soil	-0.45914	-0.34793	-0.32646	m2a
[E1493] Space II-III to industrial soil	-216.86	-168.9	-162	m2a
[E1494] Space III-IV to industrial soil	-92.468	-136.87	-88.634	m2a
[E1495] Space II-IV to industrial soil	-59.787	-78.078	-54.539	m2a
[E1496] Space IV-IV to industrial soil	-1.5156	-0.92748	-1.4722	m2a
[E1497] Steinsalz vor Abbau to industrial soil	-158.54	-125.49	-229.84	kg
[E1498] titanium ore to industrial soil	-318.24	-251.81	-547.64	kg
[E1499] Ton to industrial soil	-34.314	-34.404	-27.649	kg
[E1500] Wasser to industrial soil	-2.84E+05	-55362	-2.67E+05	kg
[E1501] heat to industrial soil	0.11261	0.08963	0.13779	TJ
[E1502] Aluminium from earth resources	0.036198	0.025927	0.027314	kg
[E1503] B from earth resources	0.020541	0.015183	0.014308	kg
[E1504] Br from earth resources	0.0017622	0.0013008	0.0011227	kg
[E1505] Butene from earth resources	0.016229	0.023664	0.015316	kg
[E1506] Ca from earth resources	0.037793	0.029386	0.027535	kg
[E1507] Dichloromonofluormethane from earth resources	0.0037605	0.0059415	0.0035442	kg
[E1508] Iron from earth resources	0.032599	0.026385	0.025416	kg
[E1509] He from earth resources	0.10207	0.091883	0.09656	kg
[E1510] Hexane from earth resources	0.059254	0.051494	0.056212	kg
[E1511] I (Iodium) from earth resources	0.0008399	0.0006165	0.0005532	kg
[E1512] K (kalium) from earth resources	0.03008	0.028755	0.025389	kg
[E1513] La (Lanthane) from earth resources	1.83E-05	1.30E-05	1.43E-05	kg
[E1514] Mg from earth resources	0.012889	0.0092554	0.0096966	kg

[E1515] LT Radio. Rn222 from earth resources	2.65E+06	1.97E+06	1.89E+06	kBq
[E1516] Na from earth resources	0.011814	0.0098601	0.0096186	kg
[E1517] NMVOC from earth resources	17.312	16.389	17.008	kg
[E1518] Pentane from earth resources	0.19573	0.16048	0.22067	kg
[E1519] Pt (Platina) from earth resources	4.20E-06	6.66E-06	3.95E-06	kg
[E1520] Radio. Aerosole from earth resources	9.92E+05	7.54E+05	7.06E+05	kBq
[E1521] Radio. Ag110m from earth resources	9.33E-06	6.49E-06	4.68E-06	kBq
[E1522] Radio. Am241 from earth resources	0.0003799	0.0002815	0.0002709	kBq
[E1523] Radio. other beta from earth resources	1.48E-05	1.10E-05	1.09E-05	kBq
[E1524] Radio. Ar4 from earth resources	19.056	13.184	9.2345	kBq
[E1525] Radio. Ba140 to air	0.0001509	0.0001116	0.0001078	kBq
[E1526] Radio. C14 to air	34.305	25.412	24.493	kBq
[E1527] Radio. Ce141 to air	0.0010366	0.0007875	0.0007369	kBq
[E1528] Radio. Ce144 to air	0.0040299	0.0029868	0.0028739	kBq
[E1529] Radio. Cm alpha to air	0.000602	0.0004462	0.0004292	kBq
[E1530] Radio. Cm242 to air	1.22E-09	8.89E-10	7.84E-10	kBq
[E1531] Radio. Cm244 to air	1.11E-08	8.03E-09	7.08E-09	kBq
[E1532] Radio. Co57 to air	1.47E-08	1.02E-08	7.05E-09	kBq
[E1533] Radio. Co58 to air	0.0004868	0.0003639	0.0003585	kBq
[E1534] Radio. Co60 to air	0.000794	0.0005895	0.0005691	kBq
[E1535] Radio. Cr51 to air	5.74E-05	4.19E-05	3.81E-05	kBq
[E1536] Radio. Cs134 to air	0.014332	0.010623	0.010232	kBq
[E1537] Radio. Cs137 to air	0.027794	0.020604	0.019827	kBq
[E1538] Radio. nobel gasses to air	19.928	14.821	14.761	kBq
[E1539] Radio. Fe59 to air	4.60E-07	3.33E-07	2.86E-07	kBq
[E1540] Radio. H3 to air	273.09	202.91	196.13	kBq
[E1541] Radio. I129 to air	0.10834	0.080301	0.077249	kBq
[E1542] Radio. I131 air	0.038408	0.028519	0.028123	kBq
[E1543] Radio. I133 air	0.0059792	0.0044723	0.004417	kBq
[E1544] Radio. I135 air	0.0085463	0.0063941	0.0063138	kBq
[E1545] Radio. K40 air	0.040251	0.029833	0.026833	kBq
[E1546] Radio. Kr85 air	1.86E+06	1.38E+06	1.33E+06	kBq
[E1547] Radio. Kr85m air	10.868	8.0681	7.9729	kBq
[E1548] Radio. Kr87 air	3.4243	2.5372	2.4874	kBq
[E1549] Radio. Kr88 air	77.319	57.827	57.065	kBq
[E1550] Radio. Kr89 air	3.4543	2.5649	2.5374	kBq
[E1551] Radio. La140 air	4.85E-05	3.56E-05	3.31E-05	kBq
[E1552] Radio. Mn54 air	1.43E-05	1.04E-05	9.37E-06	kBq
[E1553] Radio. Nb95 air	2.17E-06	1.55E-06	1.26E-06	kBq
[E1554] Radio. Np237 air	1.99E-08	1.47E-08	1.42E-08	kBq
[E1555] Radio. Pa234m air	0.011927	0.00884	0.0084895	kBq
[E1556] Radio. Pb210 air	0.27468	0.20356	0.18929	kBq
[E1557] Radio. Pm147 air	0.010237	0.0075874	0.0072982	kBq
[E1558] Radio. Po210 air	0.39136	0.29006	0.26702	kBq
[E1559] Radio. Pu alpha air	0.001203	0.000892	0.0008578	kBq
[E1560] Radio. Pu238 air	2.67E-08	1.93E-08	1.67E-08	kBq
[E1561] Radio. Pu241 Beta air	0.033142	0.02456	0.023628	kBq
[E1562] Radio. Ra226 air	0.41101	0.30445	0.29084	kBq
[E1563] Radio. Ra228 air	0.0198	0.014681	0.01322	kBq
[E1564] Radio. Rn220 air	0.28035	0.10169	-0.32118	kBq
[E1565] Radio. Rn222 air	28817	21346	20519	kBq
[E1566] Radio. Ru103 air	2.46E-07	1.79E-07	1.62E-07	kBq

[E1567] Radio. Ru106 air	0.1203	0.089198	0.08578 kBq
[E1568] Radio. Sb124 air	3.20E-06	2.27E-06	1.80E-06 kBq
[E1569] Radio. Sb125 air	2.76E-06	2.05E-06	2.01E-06 kBq
[E1570] Radio. Sr89 air	2.60E-05	1.90E-05	1.72E-05 kBq
[E1571] Radio. Sr90 air	0.019893	0.014742	0.014185 kBq
[E1572] Radio. Tc99 air	8.43E-07	6.25E-07	6.01E-07 kBq
[E1573] Radio. Te123m air	3.86E-05	2.67E-05	1.85E-05 kBq
[E1574] Radio. Th228 air	0.01681	0.012463	0.011222 kBq
[E1575] Radio. Th230 air	0.13255	0.098175	0.09432 kBq
[E1576] Radio. Th232 air	0.010646	0.0078946	0.0071069 kBq
[E1577] Radio. Th234 air	0.011927	0.00884	0.0084895 kBq
[E1578] Radio. U alpha air	0.42686	0.31621	0.30379 kBq
[E1579] Radio. U234 air	0.14307	0.10604	0.10186 kBq
[E1580] Radio. U235 air	0.0069344	0.0051375	0.0049379 kBq
[E1581] Radio. U238 air	0.17194	0.12735	0.12103 kBq
[E1582] Radio. Xe131m air	15.69	11.623	11.382 kBq
[E1583] Radio. Xe133 air	1382.9	1031.4	1014.6 kBq
[E1584] Radio. Xe133m air	0.31314	0.2196	0.16467 kBq
[E1585] Radio. Xe135 air	376.59	280.39	276.54 kBq
[E1586] Radio. Xe135m air	103.03	76.487	75.55 kBq
[E1587] Radio. Xe137 air	2.1382	1.5852	1.5583 kBq
[E1588] Radio. Xe138 air	28.555	21.2	20.95 kBq
[E1589] Radio. Zn65 air	0.0001052	7.74E-05	7.30E-05 kBq
[E1590] Radio. Zr95 air	6.14E-07	4.30E-07	3.22E-07 kBq
[E1591] Sc (Scandium) air	5.83E-06	4.04E-06	4.47E-06 kg
[E1592] Si air	0.11084	0.080571	0.080231 kg
[E1593] Sr air	0.000635	0.0004643	0.0004897 kg
[E1594] Th (Thorium) air	1.04E-05	7.44E-06	7.74E-06 kg
[E1595] Ti (Titanium) air	0.0014074	0.0009991	0.0010181 kg
[E1596] U (Uranium) air	1.12E-05	8.26E-06	8.33E-06 kg
[E1597] Zr (Zirkonium) air	1.96E-05	1.09E-05	1.90E-05 kg
[E1598] heat air	-0.0016004	-0.0009161	-0.0013749 TJ
[E1599] Xylene air	0.026771	0.031167	0.022328 kg
[E1600] Acenaphthylene air	0.0001703	7.64E-05	0.0003741 kg
[E1601] Alkane air	0.009647	0.0087046	0.0092686 kg
[E1602] Alkene air	0.0008874	0.0008009	0.0008524 kg
[E1603] AOX air	0.0007773	0.0006419	0.0007137 kg
[E1604] Barite air	1.6686	1.4225	1.8669 kg
[E1605] BSB5 air	0.15508	0.12573	0.14062 kg
[E1606] Ethylene Dichloride air	6.27E-05	4.33E-05	7.80E-05 kg
[E1607] acid air	0.011356	0.0078327	0.015792 kg
[E1608] aluminium air	1.4566	0.83807	1.1772 kg
[E1609] berilium air	1.57E-06	1.16E-06	1.10E-06 kg
[E1610] calcium air	3.8549	3.1608	3.4971 kg
[E1611] Cs (Cesium) air	7.25E-05	6.58E-05	6.85E-05 kg
[E1612] Cyanide (CN) air	0.0017808	0.0013246	0.0016646 kg
[E1613] DOC air	0.016669	0.011046	0.02897 kg
[E1614] fat and oil air	1.4064	1.2613	1.3607 kg
[E1615] fatty acids as C air	0.37108	0.33606	0.35378 kg
[E1616] Glutaraldehyde air	0.0002058	0.0001755	0.0002302 kg
[E1617] Hexachloroethane air	1.40E-09	9.64E-10	1.73E-09 kg
[E1618] HOCl air	0.0026837	0.0017771	0.0009119 kg

[E1619] hydrocarbons air	0.057618	0.045586	0.098622 kg
[E1620] iod air	0.0072367	0.006564	0.0068406 kg
[E1621] K air	0.78508	0.56897	0.68592 kg
[E1622] metals water	0.21239	0.16805	0.36548 kg
[E1623] Methylene chloride water	0.0007879	0.0006643	0.0008714 kg
[E1624] Mg water	1.2327	0.73724	1.0021 kg
[E1625] MTBE water	6.14E-06	9.54E-06	5.76E-06 kg
[E1626] Fe water	1.583	1.116	1.4166 kg
[E1627] Fluoride water	0.041717	0.038489	0.040781 kg
[E1628] silver water	5.34E-05	4.93E-05	4.95E-05 kg
[E1629] Na water	33.808	36.107	31.754 kg
[E1630] OCl water	0.0026838	0.0017772	0.000912 kg
[E1631] PAH Polycyclic. Aromatic Hydrocarbons water	0.0009813	0.0009035	0.0009259 kg
[E1632] Radio. Ag110m water	0.13338	0.10046	0.10174 kBq
[E1633] Radio. Alpha-radiator water	9.95E-06	7.22E-06	6.33E-06 kBq
[E1634] Radio. Am241 water	0.04997	0.037035	0.035631 kBq
[E1635] Radio. Ba140 water	0.0018854	0.0014023	0.0013965 kBq
[E1636] Radio. C14 water	2.5249	1.8719	1.8003 kBq
[E1637] Radio. Cd109 water	1.09E-05	8.10E-06	8.06E-06 kBq
[E1638] Radio. Ce141 water	0.000281	0.000209	0.0002082 kBq
[E1639] Radio. Ce144 water	1.1441	0.84783	0.81592 kBq
[E1640] Radio. Cm alpha water	0.066147	0.049024	0.047166 kBq
[E1641] Radio. Co57 water	0.0019274	0.0014334	0.0014279 kBq
[E1642] Radio. Co58 water	0.80412	0.59925	0.59832 kBq
[E1643] Radio. Co60 water	12.005	8.9017	8.5967 kBq
[E1644] Radio. Cr51 water	0.041348	0.030751	0.030629 kBq
[E1645] Radio. Cs134 water	2.5684	1.9046	1.833 kBq
[E1646] Radio. Cs136 water	1.01E-05	7.51E-06	7.48E-06 kBq
[E1647] Radio. Cs137 water	23.629	17.522	16.862 kBq
[E1648] Radio. Fe59 water	3.33E-05	2.48E-05	2.47E-05 kBq
[E1649] Radio. H3 water	74827	55454	53362 kBq
[E1650] Radio. I129 water	7.2324	5.3602	5.1569 kBq
[E1651] Radio. I131 water	0.011341	0.0084699	0.0084802 kBq
[E1652] Radio. I133 water	0.0086151	0.0064071	0.0063817 kBq
[E1653] Radio. K 40 water	-0.10853	-0.095951	-0.14957 kBq
[E1654] Radio. La140 water	0.0003905	0.0002904	0.0002892 kBq
[E1655] Radio. Mn54 water	1.7279	1.2809	1.2334 kBq
[E1656] Radio. Mo99 water	0.0001317	9.79E-05	9.75E-05 kBq
[E1657] Radio. Na24 water	0.057934	0.043087	0.042918 kBq
[E1658] Radio. Nb95 water	0.0010686	0.0007947	0.0007915 kBq
[E1659] Radio. Np237 water	0.0031877	0.0023631	0.0022732 kBq
[E1660] Radio. Nucl. mixed water	8663.6	6582.5	6159.6 kBq
[E1661] Radio. Pa234m water	0.22079	0.16361	0.15715 kBq
[E1662] Radio. Pb 210 water	-0.08698	-0.076886	-0.11975 kBq
[E1663] Radio. Po 210 water	-0.08698	-0.076886	-0.11975 kBq
[E1664] Radio. Pu alpha water	0.19893	0.14742	0.14185 kBq
[E1665] Radio. Pu241 beta water	4.9382	3.6605	3.5212 kBq
[E1666] Radio. Ra 224 water	3.6161	3.2814	3.4178 kBq
[E1667] Radio. Ra 226 water	917.09	680.65	654.35 kBq
[E1668] Radio. Ra 228 water	7.2369	6.5642	6.8408 kBq
[E1669] Radio. Ru103 water	0.0006312	0.0004695	0.0004676 kBq
[E1670] Radio. Ru106 water	12.03	8.9198	8.578 kBq

[E1671] Radio. Sb122 water	0.0018854	0.0014023	0.0013965 kBq
[E1672] Radio. Sb124 water	0.056806	0.042554	0.042771 kBq
[E1673] Radio. Sb125 water	0.015382	0.011441	0.011394 kBq
[E1674] Radio. Spalt- u. Aktiv. prod. water	0.066298	0.046154	0.033236 kBq
[E1675] Radio. Sr89 water	0.0042549	0.0031644	0.0031522 kBq
[E1676] Radio. Sr90 water	2.4117	1.7873	1.7198 kBq
[E1677] Radio. Tc99 water	1.2649	0.93755	0.90198 kBq
[E1678] Radio. Tc99m water	0.0008871	0.0006598	0.0006571 kBq
[E1679] Radio. Te123m water	7.95E-05	5.91E-05	5.89E-05 kBq
[E1680] Radio. Te132 water	3.25E-05	2.42E-05	2.41E-05 kBq
[E1681] Radio. Th 228 water	14.472	13.14	13.679 kBq
[E1682] Radio. Th 232 water	-0.020261	-0.017916	-0.027917 kBq
[E1683] Radio. Th230 water	34.544	25.593	24.585 kBq
[E1684] Radio. Th234 water	0.22203	0.16448	0.15794 kBq
[E1685] Radio. U 238 water	0.63372	0.46337	0.42257 kBq
[E1686] Radio. U alpha water	14.416	10.674	10.253 kBq
[E1687] Radio. U234 water	0.2948	0.21842	0.20985 kBq
[E1688] Radio. U235 water	0.43957	0.32561	0.31281 kBq
[E1689] Radio. Y90 water	0.0002179	0.0001621	0.0001614 kBq
[E1690] Radio. Zn65 water	0.12238	0.091018	0.090654 kBq
[E1691] Radio. Zr95 water	0.1026	0.076042	0.073147 kBq
[E1692] Rb (Rubidium) water	0.0007254	0.0006583	0.0006854 kg
[E1693] salt water	2.1405	1.5307	1.5652 kg
[E1694] Sb water	6.13E-06	5.89E-06	1.74E-06 kg
[E1695] Se water	0.0073071	0.0042149	0.0059036 kg
[E1696] Si water	0.0010827	0.0008914	0.0011027 kg
[E1697] solved substances water	0.82706	0.62933	0.70293 kg
[E1698] Solvents (Cl) water	1.65E-05	1.67E-05	1.42E-05 kg
[E1699] Sr water	0.45548	0.40803	0.42822 kg
[E1700] Sulfite water	0.0027271	0.0040448	0.0024617 kg
[E1701] suspended substanses water	5.3479	4.5812	5.916 kg
[E1702] Ti water	0.085895	0.049627	0.069535 kg
[E1703] TOC water	30.201	26.114	24.335 kg
[E1704] Triethylene Glykol water	0.016669	0.011046	0.02897 kg
[E1705] volatile organic comp. as C water	0.025337	0.023	0.023946 kg
[E1706] W (wolfram) water	3.10E-05	2.30E-05	2.08E-05 kg
[E1707] Xylene water	0.007042	0.0063974	0.0067654 kg
[E1708] heat water	-0.0006908	-0.0005762	-0.0006933 TJ
[E1709] aluminium water	0.11333	0.095586	0.12529 kg
[E1710] C water	0.38271	0.32062	0.40813 kg
[E1711] calcium water	0.45319	0.38233	0.501 kg
[E1712] iron water	0.22665	0.19118	0.25068 kg
[E1713] mangane water	0.0045319	0.0038233	0.00501 kg
[E1714] N water	55.395	42.088	39.384 kg
[E1715] oil water	0.070075	0.062012	0.065932 kg
[E1716] oil biol. water	0.0048416	0.0037557	0.0043744 kg
[E1717] P water	0.0065833	0.0054251	0.0070187 kg
[E1718] S water	0.068008	0.057367	0.075192 kg
[E1719] chlorine water	0.029266	0.023157	0.050361 kg
[E1720] fluor water	0.01087	0.008601	0.018706 kg
[E1722] Te water	0.0001157	9.09E-05	0.0001164 kg
[E1723] heavy metals water	8.79E-19	6.68E-19	6.25E-19 kg

[E1724] metals water	7.35E-07	5.59E-07	5.23E-07 kg
[E1725] oil water	0.03575	0.027162	0.025417 kg
[E1726] HC water	1.77E-05	1.34E-05	1.26E-05 kg
[E1727] bromoxynil water	0.0042804	0.0032522	0.0030432 kg
[E1728] clopyralid water	0.0043056	0.0032714	0.0030611 kg
[E1729] lambda-cyhalothrin water	2.67E-05	2.03E-05	1.90E-05 kg
[E1730] sethoxydim water	0.0029208	0.0022192	0.0020766 kg
[E1731] bromoxynil water	0.016971	0.012894	0.012066 kg
[E1732] clopyralid water	0.0034747	0.00264	0.0024704 kg
[E1733] lambda-cyhalothrin water	0.0004155	0.0003157	0.0002954 kg
[E1734] sethoxidim soil	0.026186	0.019896	0.018618 kg
[E1735] bromoxynil soil	0.0001093	8.30E-05	7.77E-05 kg
[E1736] clopyralid soil	4.00E-05	3.04E-05	2.85E-05 kg
[E1737] lambda-cyhalothrin soil	1.16E-06	8.80E-07	8.23E-07 kg
[E1738] sethoxidim soil	0.0001498	0.0001138	0.0001065 kg

Appendix C. Characterisation factors

Category = [C1] Depletion of abiotic resources
Description = Problem oriented approach, manual 1999
Author = Guinee, 1995
Date = 11/1/99

Environmental resources

Environmental resource	Value	Unit
[E1] actinium (Ac) from earth resources	6.33E+13	kg antimony eq./kg
[E2] aluminium (Al) from earth resources	1.00E-08	kg antimony eq./kg
[E3] antimony (Sb) from earth resources	1	kg antimony eq./kg
[E4] argon (Ar) from earth resources	4.71E-07	kg antimony eq./kg
[E5] arsenic (As) from earth resources	0.00917	kg antimony eq./kg
[E6] barium (Ba) from earth resources	1.06E-10	kg antimony eq./kg
[E7] beryllium (Be) from earth resources	3.19E-05	kg antimony eq./kg
[E8] bismuth (Bi) from earth resources	0.0731	kg antimony eq./kg
[E9] boron (B) from earth resources	0.00467	kg antimony eq./kg
[E10] bromine (Br) from earth resources	0.00667	kg antimony eq./kg
[E11] cadmium (Cd) from earth resources	0.33	kg antimony eq./kg
[E12] calcium (Ca) from earth resources	7.08E-10	kg antimony eq./kg
[E13] cerium (Ce) from earth resources	5.32E-09	kg antimony eq./kg
[E14] cesium (Cs) from earth resources	1.91E-05	kg antimony eq./kg
[E15] chlorine (Cl) from earth resources	4.86E-08	kg antimony eq./kg
[E16] cobalt (Co) from earth resources	2.62E-05	kg antimony eq./kg
[E17] copper (Cu) from earth resources	0.00194	kg antimony eq./kg
[E18] chromium (Cr) from earth resources	0.000858	kg antimony eq./kg
[E19] dysprosium (Dy) from earth resources	2.13E-06	kg antimony eq./kg
[E20] erbium (Er) from earth resources	2.44E-06	kg antimony eq./kg
[E21] europium (Eu) from earth resources	1.33E-05	kg antimony eq./kg
[E22] fluorine (F) from earth resources	2.96E-06	kg antimony eq./kg
[E23] gadolinium (Gd) from earth resources	6.57E-07	kg antimony eq./kg
[E24] gallium (Ga) from earth resources	1.03E-07	kg antimony eq./kg
[E25] germanium (Ge) from earth resources	1.47E-06	kg antimony eq./kg
[E26] gold (Au) from earth resources	89.5	kg antimony eq./kg
[E27] hafnium (Hf) from earth resources	8.67E-07	kg antimony eq./kg
[E28] helium (He) from earth resources	148	kg antimony eq./kg
[E29] holmium (Ho) from earth resources	1.33E-05	kg antimony eq./kg
[E30] indium (In) from earth resources	0.00903	kg antimony eq./kg
[E31] iodine (I) from earth resources	0.0427	kg antimony eq./kg
[E32] iridium (Ir) from earth resources	32.3	kg antimony eq./kg
[E33] iron (Fe) from earth resources	8.43E-08	kg antimony eq./kg
[E34] kalium (K;potassium) from earth resources	3.13E-08	kg antimony eq./kg
[E35] krypton (Kr) from earth resources	20.9	kg antimony eq./kg
[E36] lanthanum (La) from earth resources	2.13E-08	kg antimony eq./kg
[E37] lithium (Li) from earth resources	9.23E-06	kg antimony eq./kg
[E38] lead (Pb) from earth resources	0.0135	kg antimony eq./kg
[E39] lutetium (Lu) from earth resources	7.66E-05	kg antimony eq./kg
[E40] magnesium (Mg) from earth resources	3.73E-09	kg antimony eq./kg
[E41] manganese (Mn) from earth resources	1.38E-05	kg antimony eq./kg
[E42] mercury (Hg) from earth resources	0.495	kg antimony eq./kg
[E43] molybdenum (Mo) from earth resources	0.0317	kg antimony eq./kg
[E44] neodymium (Nd) from earth resources	1.94E-17	kg antimony eq./kg
[E45] neon (Ne) from earth resources	0.325	kg antimony eq./kg
[E46] nickel (Ni) from earth resources	0.000108	kg antimony eq./kg
[E47] niobium (Nb) from earth resources	2.31E-05	kg antimony eq./kg
[E48] osmium (Os) from earth resources	14.4	kg antimony eq./kg
[E49] palladium (Pd) from earth resources	0.323	kg antimony eq./kg
[E50] phosphorus (P) from earth resources	8.44E-05	kg antimony eq./kg
[E51] platinum (Pt) from earth resources	1.29	kg antimony eq./kg
[E52] polonium (Po) from earth resources	4.79E+14	kg antimony eq./kg
[E53] praseodymium (Pr) from earth resources	2.85E-07	kg antimony eq./kg
[E54] protactinium (Pa) from earth resources	9.77E+06	kg antimony eq./kg
[E55] radium (Ra) from earth resources	2.36E+07	kg antimony eq./kg
[E56] radon (Rn) from earth resources	1.20E+20	kg antimony eq./kg
[E57] rhenium (Re) from earth resources	0.766	kg antimony eq./kg
[E58] rhodium (Rh) from earth resources	32.3	kg antimony eq./kg

[E59] rubidium (Rb) from earth resources	2.36E-09 kg antimony eq./kg
[E60] ruthenium (Ru) from earth resources	32.3 kg antimony eq./kg
[E61] samarium (Sm) from earth resources	5.32E-07 kg antimony eq./kg
[E62] scandium (Sc) from earth resources	3.96E-08 kg antimony eq./kg
[E63] selenium (Se) from earth resources	0.475 kg antimony eq./kg
[E64] silicium (Si; silicon) from earth resources	2.99E-11 kg antimony eq./kg
[E65] silver (Ag) from earth resources	1.84 kg antimony eq./kg
[E66] Sodium (Na) from earth resources	8.24E-11 kg antimony eq./kg
[E67] strontium (Sr) from earth resources	1.12E-06 kg antimony eq./kg
[E68] sulfur (S) from earth resources	0.000358 kg antimony eq./kg
[E69] tantalum (Ta) from earth resources	6.77E-05 kg antimony eq./kg
[E70] tellurium (Te) from earth resources	52.8 kg antimony eq./kg
[E71] terbium (Tb) from earth resources	2.36E-05 kg antimony eq./kg
[E72] thallium (Tl) from earth resources	5.05E-05 kg antimony eq./kg
[E73] thorium (Th) from earth resources	2.08E-07 kg antimony eq./kg
[E74] thulium (Tm) from earth resources	8.31E-05 kg antimony eq./kg
[E75] tin (Sn) from earth resources	0.033 kg antimony eq./kg
[E76] titanium (Ti) from earth resources	4.40E-08 kg antimony eq./kg
[E77] tungsten (W); wolfraam from earth resources	0.0117 kg antimony eq./kg
[E78] uranium (U) from earth resources	0.00287 kg antimony eq./kg
[E79] vanadium (V) from earth resources	1.16E-06 kg antimony eq./kg
[E80] xenon (Xe) from earth resources	17500 kg antimony eq./kg
[E81] ytterbium (Yb) from earth resources	2.13E-06 kg antimony eq./kg
[E82] yttrium (Y) from earth resources	3.34E-07 kg antimony eq./kg
[E83] zinc (Zn) from earth resources	0.000992 kg antimony eq./kg
[E84] Zirconium (Zr) from earth resources	1.86E-05 kg antimony eq./kg
[E85] oil crude from earth resources	0.436 kg antimony eq./kg
[E86] natural gas from earth resources	0.32 kg antimony eq./m3
[E87] coal soft from earth resources	0.00851 kg antimony eq./kg
[E88] coal hard from earth resources	0.006 kg antimony eq./kg
[E89] coal total from earth resources	0.00363 kg antimony eq./kg
[E1506] Erdoelgas from earth resources	0.32 kg antimony eq./Nm3

Environmental emissions

Environmental emission	Value	Unit

Category = [C2] Photochemical oxidant formation (Derwent)
Description = Problem oriented approach, manual 1999; high NOx
Author = Derwent et al., 1998
Date = 27-09-1999

Environmental resources

Environmental resource	Value	Unit

Environmental emissions

Environmental emission	Value	Unit
[E90] 1,1,1-trichloroethane (methyl chloroform; HC-140a) to air	0.009	kg ethylene eq./kg
[E97] 1,2,3-Trimethyl Benzene to air	1.27	kg ethylene eq./kg
[E100] 1,2,4-trimethylbenzene to air	1.28	kg ethylene eq./kg
[E109] 1,3,5-trimethylbenzene (mesitylene) to air	1.38	kg ethylene eq./kg
[E111] 1,3-Butadiene to air	0.851	kg ethylene eq./kg
[E119] 1-Butane to air	0.352	kg ethylene eq./kg
[E120] 1-Butanol to air	0.612	kg ethylene eq./kg
[E121] 1-Butene to air	1.08	kg ethylene eq./kg
[E122] 1-Butoxy Propanol to air	0.436	kg ethylene eq./kg
[E123] 1-Butyl Acetate to air	0.241	kg ethylene eq./kg
[E130] 1-Decane to air	0.384	kg ethylene eq./kg
[E131] 1-Dodecane to air	0.357	kg ethylene eq./kg
[E134] 1-Heptane to air	0.494	kg ethylene eq./kg
[E137] 1-Hexane to air	0.482	kg ethylene eq./kg
[E138] 1-Hexene to air	0.874	kg ethylene eq./kg
[E139] 1-Methoxy-2-Propanol to air	0.368	kg ethylene eq./kg
[E141] 1-Nonane to air	0.414	kg ethylene eq./kg
[E143] 1-Octane to air	0.453	kg ethylene eq./kg
[E147] 1-Pentane to air	0.395	kg ethylene eq./kg

[E148] 1-Pentene to air	0.977 kg ethylene eq./kg
[E149] 1-Propanol to air	0.543 kg ethylene eq./kg
[E150] 1-Propyl Benzene to air	0.636 kg ethylene eq./kg
[E154] 1-Undecane to air	0.384 kg ethylene eq./kg
[E163] 2,2-Dimethylbutane to air	0.241 kg ethylene eq./kg
[E182] 2.3- Dimethylbutane to air	0.541 kg ethylene eq./kg
[E183] 2-Butoxy-Ethanol to air	0.438 kg ethylene eq./kg
[E186] 2-Ethoxy-Ethanol to air	0.387 kg ethylene eq./kg
[E192] 2-Methoxy-Ethanol to air	0.3 kg ethylene eq./kg
[E193] 2-Methyl-1-Butene to air	0.771 kg ethylene eq./kg
[E195] 2-Methyl-2-Butene to air	0.842 kg ethylene eq./kg
[E197] 2-Methylbutan-1-ol to air	0.407 kg ethylene eq./kg
[E198] 2-Methylbutan-2-ol to air	0.142 kg ethylene eq./kg
[E200] 2-Methylhexane to air	0.411 kg ethylene eq./kg
[E203] 2-Methylpentane to air	0.42 kg ethylene eq./kg
[E211] 3,5-Diethyltoluene to air	1.3 kg ethylene eq./kg
[E212] 3,5-Dimethylethylbenzene to air	1.32 kg ethylene eq./kg
[E218] 3-Methyl-1-Butene to air	0.671 kg ethylene eq./kg
[E219] 3-Methylbutan-1-ol to air	0.412 kg ethylene eq./kg
[E220] 3-Methylbutan-2-ol to air	0.366 kg ethylene eq./kg
[E223] 3-Methylhexane to air	0.364 kg ethylene eq./kg
[E224] 3-Methylpentane to air	0.479 kg ethylene eq./kg
[E227] 3-Pentanol to air	0.422 kg ethylene eq./kg
[E232] Acetaldehyde (ethanal) to air	0.641 kg ethylene eq./kg
[E233] Acetic acid to air	0.097 kg ethylene eq./kg
[E234] Acetone (2-propanon) to air	0.094 kg ethylene eq./kg
[E235] Acetylene to air	0.085 kg ethylene eq./kg
[E262] Benzaldehyde to air	-0.092 kg ethylene eq./kg
[E263] Benzene to air	0.218 kg ethylene eq./kg
[E291] Butyraldehyde (butanal) to air	0.795 kg ethylene eq./kg
[E417] cis-2-Butene to air	1.15 kg ethylene eq./kg
[E418] cis-2-Hexene to air	1.07 kg ethylene eq./kg
[E419] cis-2-Pentene to air	1.12 kg ethylene eq./kg
[E420] cis-Dichloroethene to air	0.447 kg ethylene eq./kg
[E429] Cyclohexane to air	0.29 kg ethylene eq./kg
[E430] Cyclohexanol to air	0.446 kg ethylene eq./kg
[E431] Cyclohexanone to air	0.299 kg ethylene eq./kg
[E445] Diacetone alcohol to air	0.262 kg ethylene eq./kg
[E449] Dichloromethane (Methylene Chloride) to air	0.068 kg ethylene eq./kg
[E453] Diethyl Ether to air	0.467 kg ethylene eq./kg
[E455] Diethylketone to air	0.414 kg ethylene eq./kg
[E460] Diisopropylether to air	0.476 kg ethylene eq./kg
[E463] Dimethyl Ether to air	0.174 kg ethylene eq./kg
[E483] Ethane to air	0.123 kg ethylene eq./kg
[E485] Ethanol to air	0.386 kg ethylene eq./kg
[E488] Ethyl Acetate to air	0.213 kg ethylene eq./kg
[E495] Ethyl- trans-Butyl Ether to air	0.214 kg ethylene eq./kg
[E496] Ethylbenzene to air	0.73 kg ethylene eq./kg
[E499] Ethylene (ethene) to air	1 kg ethylene eq./kg
[E502] Ethylene Glycol to air	0.382 kg ethylene eq./kg
[E511] Formaldehyde (methanal) to air	0.519 kg ethylene eq./kg
[E512] Formic acid to air	0.032 kg ethylene eq./kg
[E539] Hexan-2-one to air	0.572 kg ethylene eq./kg
[E540] Hexan-3-one to air	0.599 kg ethylene eq./kg
[E570] isobutane to air	0.307 kg ethylene eq./kg
[E571] isobutanol (2-methylpropanol-1) to air	0.375 kg ethylene eq./kg
[E572] isobutene (2-methylpropene) to air	0.627 kg ethylene eq./kg
[E575] isobutyraldehyde to air	0.514 kg ethylene eq./kg
[E576] isopentane to air	0.405 kg ethylene eq./kg
[E578] isoprene to air	1.09 kg ethylene eq./kg
[E579] isopropanol to air	0.14 kg ethylene eq./kg
[E580] isopropyl acetate to air	0.213 kg ethylene eq./kg
[E581] isopropyl benzene (cumene) to air	0.5 kg ethylene eq./kg
[E594] meta-Ethyltoluene to air	1.02 kg ethylene eq./kg
[E596] meta-Xylene (1,3-dimethylbenzene) to air	1.11 kg ethylene eq./kg
[E600] Methane to air	0.006 kg ethylene eq./kg
[E602] Methanol to air	0.131 kg ethylene eq./kg

[E604] Methyl Acetate to air	0.046 kg ethylene eq./kg
[E609] Methyl Choride to air	0.005 kg ethylene eq./kg
[E613] Methyl Ethyl Ketone to air	0.373 kg ethylene eq./kg
[E614] Methyl Formate to air	0.033 kg ethylene eq./kg
[E616] Methyl Isobutyl Ketone (4-methylpentanon-2) to air	0.49 kg ethylene eq./kg
[E622] Methyl propyl Ketone to air	0.548 kg ethylene eq./kg
[E624] Methyl trans-Butyl Ether to air	0.152 kg ethylene eq./kg
[E625] Methyl-Isopropylketone to air	0.364 kg ethylene eq./kg
[E627] Methyl-transbutylketone to air	0.323 kg ethylene eq./kg
[E634] Neopentane to air	0.173 kg ethylene eq./kg
[E649] ortho-Ethyltoluene to air	0.898 kg ethylene eq./kg
[E650] ortho-Xylene (1,2-dimethylbenzene) to air	1.05 kg ethylene eq./kg
[E654] para-Ethyltoluene to air	0.906 kg ethylene eq./kg
[E658] para-Xylene (1,4-dimethylbenzene) to air	1.01 kg ethylene eq./kg
[E663] Pentanaldehyde to air	0.765 kg ethylene eq./kg
[E687] Propane to air	0.176 kg ethylene eq./kg
[E688] Propanoic acid (propionic acid) to air	0.15 kg ethylene eq./kg
[E689] Propionaldehyde (propanal) to air	0.798 kg ethylene eq./kg
[E691] Propyl Acetate to air	0.29 kg ethylene eq./kg
[E693] Propylene to air	1.12 kg ethylene eq./kg
[E695] Propylene Glycol to air	0.457 kg ethylene eq./kg
[E701] sec-Butanol to air	0.4 kg ethylene eq./kg
[E703] sec-Buytl Acetate to air	0.267 kg ethylene eq./kg
[E706] styrene (vinylbenzene) to air	0.142 kg ethylene eq./kg
[E716] tertiary-Butanol to air	0.123 kg ethylene eq./kg
[E717] tertiary-Butyl Acetate to air	0.065 kg ethylene eq./kg
[E718] tetrachloroethylene (PER) (tetrachloroethene) to air	0.029 kg ethylene eq./kg
[E727] Toluene to air	0.637 kg ethylene eq./kg
[E729] trans-2-Butene to air	1.13 kg ethylene eq./kg
[E730] trans-2-Hexene to air	1.07 kg ethylene eq./kg
[E731] trans-2-Pentene to air	1.12 kg ethylene eq./kg
[E732] trans-dichloroethene to air	0.392 kg ethylene eq./kg
[E737] Trichloroethylene (tri) to air	0.325 kg ethylene eq./kg
[E738] Trichloromethane (chloroform) to air	0.023 kg ethylene eq./kg

Category = [C3] Depletion of the ozone layer
Description = Problem oriented approach, manual 1999; ozone depletion steady state
Author = WMO, 1991, 1994, 1998
Date = 11/1/99

Environmental resources

Environmental resource	Value	Unit

Environmental emissions

Environmental emission	Value	Unit
[E90] 1,1,1-trichloroethane (methyl chloroform; HC-140a) to air	0.12	kg CFC-11 eq./kg
[E398] CFC-11 to air	1	kg CFC-11 eq./kg
[E399] CFC-113 to air	0.9	kg CFC-11 eq./kg
[E400] CFC-114 to air	0.85	kg CFC-11 eq./kg
[E401] CFC-115 to air	0.4	kg CFC-11 eq./kg
[E402] CFC-12 to air	0.82	kg CFC-11 eq./kg
[E517] HALON (HBFC-2401) to air	0.25	kg CFC-11 eq./kg
[E518] HALON-1201 (HBFC-1201) to air	1.4	kg CFC-11 eq./kg
[E519] HALON-1202 to air	1.25	kg CFC-11 eq./kg
[E520] HALON-1211 to air	5.1	kg CFC-11 eq./kg
[E521] HALON-1301 to air	12	kg CFC-11 eq./kg
[E522] HALON-2311 (HBFC-2311) to air	0.14	kg CFC-11 eq./kg
[E523] HALON-2402 (Di-Broom-tetra-Fluor-ethane) to air	7	kg CFC-11 eq./kg
[E525] HCFC-123 (1,1-Di-Chloro-222-Tri-Fluorethaan) to air	0.014	kg CFC-11 eq./kg
[E526] HCFC-124 (1-Chloro-1222-Tetra-Fluor-Ethane) to air	0.03	kg CFC-11 eq./kg
[E527] HCFC-141b (Dichlorofluorethane) to air	0.1	kg CFC-11 eq./kg
[E528] HCFC-142b (1-Chloro-1,1-Difluorethane) to air	0.05	kg CFC-11 eq./kg
[E529] HCFC-22 (Chlorodifluormethane) to air	0.04	kg CFC-11 eq./kg
[E530] HCFC-225ca to air	0.02	kg CFC-11 eq./kg
[E531] HCFC-225cb to air	0.02	kg CFC-11 eq./kg
[E608] Methyl Bromide to air	0.4	kg CFC-11 eq./kg

[E609] Methyl Choride to air		0.02 kg CFC-11 eq./kg
[E719] Tetrachloromethane (carbon tetrachloride) (HC-10) to air		1.2 kg CFC-11 eq./kg

Category = [C4] Global warming (100 years)
Description = Problem oriented approach, manual 1999; GWP100
Author = Houghton et al., 1994 & 1995
Date = 27-09-1999

Environmental resources

Environmental resource	Value	Unit

Environmental emissions

Environmental emission	Value	Unit
[E90] 1,1,1-trichloroethane (methyl chloroform; HC-140a) to air		110 kg CO2 eq./kg
[E393] Carbon dioxide to air		1 kg CO2 eq./kg
[E398] CFC-11 to air		4000 kg CO2 eq./kg
[E399] CFC-113 to air		5000 kg CO2 eq./kg
[E400] CFC-114 to air		9300 kg CO2 eq./kg
[E401] CFC-115 to air		9300 kg CO2 eq./kg
[E402] CFC-12 to air		8500 kg CO2 eq./kg
[E403] CFC-13 to air		11700 kg CO2 eq./kg
[E449] Dichloromethane (Methylene Chloride) to air		9 kg CO2 eq./kg
[E469] Dinitrogen oxide (nitrous oxide) to air		310 kg CO2 eq./kg
[E521] HALON-1301 to air		5600 kg CO2 eq./kg
[E525] HCFC-123 (1,1-Di-Chloro-222-Tri-Fluorethaan) to air		93 kg CO2 eq./kg
[E526] HCFC-124 (1-Chloro-1222-Tetra-Fluor-Ethane) to air		480 kg CO2 eq./kg
[E527] HCFC-141b (Dichlorofluorethane) to air		630 kg CO2 eq./kg
[E528] HCFC-142b (1-Chloro-1,1-Difluorethane) to air		2000 kg CO2 eq./kg
[E529] HCFC-22 (Chlorodifluormethane) to air		1700 kg CO2 eq./kg
[E530] HCFC-225ca to air		170 kg CO2 eq./kg
[E531] HCFC-225cb to air		530 kg CO2 eq./kg
[E543] HFC-125 (Pentafluoroethane) to air		2800 kg CO2 eq./kg
[E544] HFC-134 (1,1,1,2-tetra-fluor-ethane) to air		1000 kg CO2 eq./kg
[E545] HFC-134a (1,1,1,2-tetrafluoroethane) to air		1300 kg CO2 eq./kg
[E546] HFC-143 to air		300 kg CO2 eq./kg
[E547] HFC-143a (1,1,1-trifluoroethane) to air		3800 kg CO2 eq./kg
[E548] HFC-152a (1,1-difluoroethane) to air		140 kg CO2 eq./kg
[E549] HFC-227ea to air		2900 kg CO2 eq./kg
[E550] HFC-23 to air		11700 kg CO2 eq./kg
[E551] HFC-236fa to air		6300 kg CO2 eq./kg
[E552] HFC-245ca to air		560 kg CO2 eq./kg
[E553] HFC-32 to air		650 kg CO2 eq./kg
[E554] HFC-41 to air		13000 kg CO2 eq./kg
[E555] HFC-43-10mee to air		1300 kg CO2 eq./kg
[E600] Methane to air		21 kg CO2 eq./kg
[E609] Methyl Choride to air		25 kg CO2 eq./kg
[E665] Perfluorobutane to air		7000 kg CO2 eq./kg
[E666] Perfluorocyclobutane to air		8700 kg CO2 eq./kg
[E667] Perfluoroethane (CFC-116) to air		9200 kg CO2 eq./kg
[E668] Perfluorohexane to air		7400 kg CO2 eq./kg
[E669] Perfluoromethane (CFC-14) to air		6500 kg CO2 eq./kg
[E670] Perfluoropentane to air		7500 kg CO2 eq./kg
[E671] Perfluoropropane to air		7000 kg CO2 eq./kg
[E710] Sulphur hexafluoride to air		23900 kg CO2 eq./kg
[E719] Tetrachloromethane (carbon tetrachloride) (HC-10) to air		1400 kg CO2 eq./kg
[E738] Trichloromethane (chloroform) to air		5 kg CO2 eq./kg

Category = [C5] Human toxicity
Description = Problem oriented approach, manual 1999; HTP
Author = Huijbregts, 1999
Date = 27-09-1999

Environmental resources

Environmental resource	Value	Unit

Environmental emissions

Environmental emission	Value	Unit
[E90] 1,1,1-trichloroethane (methyl chloroform; HC-140a) to air	17	kg 1,4-dichlorobenzene eq."/kg
[E94] 1,2,3,4-tetrachlorobenzene to air	50	kg 1,4-dichlorobenzene eq."/kg
[E95] 1,2,3,5-tetrachlorobenzene to air	46	kg 1,4-dichlorobenzene eq."/kg
[E96] 1,2,3-trichlorobenzene to air	130	kg 1,4-dichlorobenzene eq."/kg
[E98] 1,2,4,5-tetrachlorobenzene to air	35	kg 1,4-dichlorobenzene eq."/kg
[E99] 1,2,4-trichlorobenzene to air	120	kg 1,4-dichlorobenzene eq."/kg
[E102] 1,2-dichlorobenzene to air	9.1	kg 1,4-dichlorobenzene eq."/kg
[E103] 1,2-dichloroethane to air	6.8	kg 1,4-dichlorobenzene eq."/kg
[E107] 1,3,5-trichlorobenzene to air	120	kg 1,4-dichlorobenzene eq."/kg
[E111] 1,3-Butadiene to air	2200	kg 1,4-dichlorobenzene eq."/kg
[E112] 1,3-dichlorobenzene to air	62	kg 1,4-dichlorobenzene eq."/kg
[E116] 1,4-dichlorobenzene to air	1	kg 1,4-dichlorobenzene eq."/kg
[E128] 1-chloro-4-nitrobenzene to air	1200	kg 1,4-dichlorobenzene eq."/kg
[E166] 2,3,4,6-tetrachlorophenol to air	290	kg 1,4-dichlorobenzene eq."/kg
[E168] 2,3,7,8-TCDD (tetrachloride-dibenzo-dioxin) to air	1.90E+09	kg 1,4-dichlorobenzene eq."/kg
[E172] 2,4,5-T to air	0.89	kg 1,4-dichlorobenzene eq."/kg
[E173] 2,4,5-trichlorophenol to air	8.3	kg 1,4-dichlorobenzene eq."/kg
[E174] 2,4,6-trichlorophenol to air	14000	kg 1,4-dichlorobenzene eq."/kg
[E175] 2,4-D to air	6.6	kg 1,4-dichlorobenzene eq."/kg
[E176] 2,4-dichlorophenol to air	95	kg 1,4-dichlorobenzene eq."/kg
[E185] 2-chlorophenol to air	22	kg 1,4-dichlorobenzene eq."/kg
[E208] 3,4-dichloroaniline to air	220	kg 1,4-dichlorobenzene eq."/kg
[E217] 3-chloroaniline to air	17000	kg 1,4-dichlorobenzene eq."/kg
[E228] 4-chloroaniline to air	260	kg 1,4-dichlorobenzene eq."/kg
[E231] acephate to air	3.1	kg 1,4-dichlorobenzene eq."/kg
[E236] Acrolein (2-propenal) to air	57	kg 1,4-dichlorobenzene eq."/kg
[E237] Acrylonitrile to air	3400	kg 1,4-dichlorobenzene eq."/kg
[E241] aldicarb to air	72	kg 1,4-dichlorobenzene eq."/kg
[E242] aldrin to air	19	kg 1,4-dichlorobenzene eq."/kg
[E250] ammonia, ammonium to air	0.1	kg 1,4-dichlorobenzene eq."/kg
[E251] anilazine to air	0.072	kg 1,4-dichlorobenzene eq."/kg
[E252] anthracene to air	0.52	kg 1,4-dichlorobenzene eq."/kg
[E253] antimony to air	6700	kg 1,4-dichlorobenzene eq."/kg
[E255] arsenic to air	3.50E+05	kg 1,4-dichlorobenzene eq."/kg
[E256] atrazine to air	4.5	kg 1,4-dichlorobenzene eq."/kg
[E257] azinphos-ethyl to air	200	kg 1,4-dichlorobenzene eq."/kg
[E258] azinphos-methyl to air	14	kg 1,4-dichlorobenzene eq."/kg
[E259] barium to air	760	kg 1,4-dichlorobenzene eq."/kg
[E260] benomyl to air	0.021	kg 1,4-dichlorobenzene eq."/kg
[E261] bentazone to air	2.1	kg 1,4-dichlorobenzene eq."/kg
[E263] Benzene to air	1900	kg 1,4-dichlorobenzene eq."/kg
[E269] benzylchloride to air	3500	kg 1,4-dichlorobenzene eq."/kg
[E270] beryllium to air	2.30E+05	kg 1,4-dichlorobenzene eq."/kg
[E272] bifenthrin to air	19	kg 1,4-dichlorobenzene eq."/kg
[E290] Butylbenzylphtalate to air	10	kg 1,4-dichlorobenzene eq."/kg
[E385] cadmium to air	1.50E+05	kg 1,4-dichlorobenzene eq."/kg
[E387] captafol to air	87	kg 1,4-dichlorobenzene eq."/kg
[E388] captan to air	0.59	kg 1,4-dichlorobenzene eq."/kg
[E389] carbaryl to air	3.2	kg 1,4-dichlorobenzene eq."/kg
[E390] carbendazim to air	19	kg 1,4-dichlorobenzene eq."/kg
[E391] carbofuran to air	200	kg 1,4-dichlorobenzene eq."/kg
[E394] carbon disulfide to air	2.4	kg 1,4-dichlorobenzene eq."/kg
[E404] chlordane to air	6700	kg 1,4-dichlorobenzene eq."/kg
[E405] chlorfenvinphos to air	270	kg 1,4-dichlorobenzene eq."/kg
[E406] chloridazon to air	0.013	kg 1,4-dichlorobenzene eq."/kg
[E407] chlorobenzene to air	9.2	kg 1,4-dichlorobenzene eq."/kg
[E410] chlorothalonil to air	8.4	kg 1,4-dichlorobenzene eq."/kg
[E411] chlorpropham to air	0.34	kg 1,4-dichlorobenzene eq."/kg
[E412] chlorpyriphos to air	21	kg 1,4-dichlorobenzene eq."/kg
[E413] chromium (unspecified) to air	650	kg 1,4-dichlorobenzene eq."/kg
[E414] chromium III to air	650	kg 1,4-dichlorobenzene eq."/kg
[E415] chromium VI to air	3.40E+06	kg 1,4-dichlorobenzene eq."/kg
[E421] cobalt to air	17000	kg 1,4-dichlorobenzene eq."/kg
[E422] copper to air	4300	kg 1,4-dichlorobenzene eq."/kg
[E423] coumaphos to air	780	kg 1,4-dichlorobenzene eq."/kg

[E425] cyanazine to air	3.5 kg 1,4-dichlorobenzene eq."/kg
[E437] cypermethrin to air	170 kg 1,4-dichlorobenzene eq."/kg
[E438] cyromazine to air	38 kg 1,4-dichlorobenzene eq."/kg
[E439] DDT to air	110 kg 1,4-dichlorobenzene eq."/kg
[E441] deltamethrin to air	1.6 kg 1,4-dichlorobenzene eq."/kg
[E442] demeton to air	71 kg 1,4-dichlorobenzene eq."/kg
[E443] desmetryn to air	95 kg 1,4-dichlorobenzene eq."/kg
[E444] Di(2-ethylhexyl)phtalate to air	2.6 kg 1,4-dichlorobenzene eq."/kg
[E446] diazinon to air	59 kg 1,4-dichlorobenzene eq."/kg
[E448] Dibutylphtalate to air	25 kg 1,4-dichlorobenzene eq."/kg
[E449] Dichloromethane (Methylene Chloride) to air	2 kg 1,4-dichlorobenzene eq."/kg
[E450] dichlorprop to air	1.1 kg 1,4-dichlorobenzene eq."/kg
[E451] dichlorvos to air	100 kg 1,4-dichlorobenzene eq."/kg
[E452] dieldrin to air	13000 kg 1,4-dichlorobenzene eq."/kg
[E456] Diethylphtalate to air	0.32 kg 1,4-dichlorobenzene eq."/kg
[E457] Dihexylphtalate to air	7000 kg 1,4-dichlorobenzene eq."/kg
[E458] Diisodecylphtalate to air	46 kg 1,4-dichlorobenzene eq."/kg
[E459] Diisooctylphtalate to air	310 kg 1,4-dichlorobenzene eq."/kg
[E461] dimethoate to air	44 kg 1,4-dichlorobenzene eq."/kg
[E468] Dimethylphtalate to air	210 kg 1,4-dichlorobenzene eq."/kg
[E470] dinoseb to air	3600 kg 1,4-dichlorobenzene eq."/kg
[E471] dinoterb to air	170 kg 1,4-dichlorobenzene eq."/kg
[E472] Dioctylphtalate to air	19 kg 1,4-dichlorobenzene eq."/kg
[E475] disulfothon to air	290 kg 1,4-dichlorobenzene eq."/kg
[E476] diuron to air	290 kg 1,4-dichlorobenzene eq."/kg
[E478] DNOC to air	160 kg 1,4-dichlorobenzene eq."/kg
[E480] endosulfan to air	6.7 kg 1,4-dichlorobenzene eq."/kg
[E481] endrin to air	1200 kg 1,4-dichlorobenzene eq."/kg
[E487] ethoprophos to air	1100 kg 1,4-dichlorobenzene eq."/kg
[E496] Ethylbenzene to air	0.97 kg 1,4-dichlorobenzene eq."/kg
[E499] Ethylene (ethene) to air	0.64 kg 1,4-dichlorobenzene eq."/kg
[E504] fenitrothion to air	5.9 kg 1,4-dichlorobenzene eq."/kg
[E505] fenthion to air	63 kg 1,4-dichlorobenzene eq."/kg
[E506] fentin acetate to air	2200 kg 1,4-dichlorobenzene eq."/kg
[E507] fentin chloride to air	840 kg 1,4-dichlorobenzene eq."/kg
[E508] fentin hydroxide to air	850 kg 1,4-dichlorobenzene eq."/kg
[E510] folpet to air	2 kg 1,4-dichlorobenzene eq."/kg
[E511] Formaldehyde (methanal) to air	0.83 kg 1,4-dichlorobenzene eq."/kg
[E516] glyphosate to air	0.0031 kg 1,4-dichlorobenzene eq."/kg
[E533] heptachlor to air	40 kg 1,4-dichlorobenzene eq."/kg
[E535] heptenophos to air	23 kg 1,4-dichlorobenzene eq."/kg
[E536] hexachloro-1,3-butadiene to air	79000 kg 1,4-dichlorobenzene eq."/kg
[E537] hexachlorobenzene to air	3.20E+06 kg 1,4-dichlorobenzene eq."/kg
[E561] hydrogen chloride to air	0.5 kg 1,4-dichlorobenzene eq."/kg
[E563] hydrogen sulfide to air	0.71 kg 1,4-dichlorobenzene eq."/kg
[E568] iprodione to air	0.28 kg 1,4-dichlorobenzene eq."/kg
[E583] isoproturon to air	130 kg 1,4-dichlorobenzene eq."/kg
[E584] lead to air	470 kg 1,4-dichlorobenzene eq."/kg
[E585] lindane to air	610 kg 1,4-dichlorobenzene eq."/kg
[E586] linuron to air	14 kg 1,4-dichlorobenzene eq."/kg
[E587] malathion to air	0.035 kg 1,4-dichlorobenzene eq."/kg
[E589] MCPA to air	15 kg 1,4-dichlorobenzene eq."/kg
[E590] mecoprop to air	120 kg 1,4-dichlorobenzene eq."/kg
[E592] mercury to air	6000 kg 1,4-dichlorobenzene eq."/kg
[E595] metamitron to air	0.88 kg 1,4-dichlorobenzene eq."/kg
[E596] meta-Xylene (1,3-dimethylbenzene) to air	0.027 kg 1,4-dichlorobenzene eq."/kg
[E597] metazachlor to air	6.8 kg 1,4-dichlorobenzene eq."/kg
[E598] methabenzthiazuron to air	7.1 kg 1,4-dichlorobenzene eq."/kg
[E603] methomyl to air	6.2 kg 1,4-dichlorobenzene eq."/kg
[E626] methyl-mercury to air	58000 kg 1,4-dichlorobenzene eq."/kg
[E628] metobromuron to air	55 kg 1,4-dichlorobenzene eq."/kg
[E629] metolachlor to air	2.6 kg 1,4-dichlorobenzene eq."/kg
[E630] mevinphos to air	1 kg 1,4-dichlorobenzene eq."/kg
[E632] molybdenum to air	5400 kg 1,4-dichlorobenzene eq."/kg
[E633] Naphtalene to air	8.1 kg 1,4-dichlorobenzene eq."/kg
[E635] nickel to air	35000 kg 1,4-dichlorobenzene eq."/kg
[E641] nitrogen dioxide to air	1.3 kg 1,4-dichlorobenzene eq."/kg

[E650] ortho-Xylene (1,2-dimethylbenzene) to air	0.12 kg 1,4-dichlorobenzene eq."/kg
[E651] oxamyl to air	1.4 kg 1,4-dichlorobenzene eq."/kg
[E652] oxydemethon-methyl to air	120 kg 1,4-dichlorobenzene eq."/kg
[E655] parathion-ethyl to air	3.3 kg 1,4-dichlorobenzene eq."/kg
[E656] parathion-methyl to air	53 kg 1,4-dichlorobenzene eq."/kg
[E658] para-Xylene (1,4-dimethylbenzene) to air	0.043 kg 1,4-dichlorobenzene eq."/kg
[E660] pentachlorobenzene to air	410 kg 1,4-dichlorobenzene eq."/kg
[E661] pentachloronitrobenzene to air	190 kg 1,4-dichlorobenzene eq."/kg
[E662] pentachlorophenol to air	5.1 kg 1,4-dichlorobenzene eq."/kg
[E672] permethrin to air	0.85 kg 1,4-dichlorobenzene eq."/kg
[E675] Phenol to air	0.52 kg 1,4-dichlorobenzene eq."/kg
[E679] phoxim to air	0.97 kg 1,4-dichlorobenzene eq."/kg
[E680] Phtalic anhydride to air	0.41 kg 1,4-dichlorobenzene eq."/kg
[E682] pirimicarb to air	3.4 kg 1,4-dichlorobenzene eq."/kg
[E683] PM10 to air	0.82 kg 1,4-dichlorobenzene eq."/kg
[E684] Polycyclic Aromatic Hydrocarbons (PAH) (unspecified) to air	5.70E+05 kg 1,4-dichlorobenzene eq."/kg
[E685] Polycyclic Aromatic Hydrocarbons Carcinogenic- (carcinogenic-PAH) to air	5.70E+05 kg 1,4-dichlorobenzene eq."/kg
[E686] propachlor to air	12 kg 1,4-dichlorobenzene eq."/kg
[E690] propoxur to air	37 kg 1,4-dichlorobenzene eq."/kg
[E697] Propylene Oxide to air	1300 kg 1,4-dichlorobenzene eq."/kg
[E698] pyrazophos to air	25 kg 1,4-dichlorobenzene eq."/kg
[E704] selenium to air	48000 kg 1,4-dichlorobenzene eq."/kg
[E705] simazine to air	33 kg 1,4-dichlorobenzene eq."/kg
[E706] styrene (vinylbenzene) to air	0.047 kg 1,4-dichlorobenzene eq."/kg
[E709] sulphur dioxide to air	0.096 kg 1,4-dichlorobenzene eq."/kg
[E718] tetrachloroethylene (PER) (tetrachloroethene) to air	5.5 kg 1,4-dichlorobenzene eq."/kg
[E719] Tetrachloromethane (carbon tetrachloride) (HC-10) to air	220 kg 1,4-dichlorobenzene eq."/kg
[E722] thallium to air	4.30E+05 kg 1,4-dichlorobenzene eq."/kg
[E723] Thiram to air	19 kg 1,4-dichlorobenzene eq."/kg
[E724] tin to air	1.7 kg 1,4-dichlorobenzene eq."/kg
[E725] tolclophos-methyl to air	0.06 kg 1,4-dichlorobenzene eq."/kg
[E727] Toluene to air	0.33 kg 1,4-dichlorobenzene eq."/kg
[E733] tri-allate to air	9.7 kg 1,4-dichlorobenzene eq."/kg
[E734] triazophos to air	210 kg 1,4-dichlorobenzene eq."/kg
[E735] tributyltinoxide to air	7500 kg 1,4-dichlorobenzene eq."/kg
[E736] trichlorfon to air	4.4 kg 1,4-dichlorobenzene eq."/kg
[E737] Trichloroethylene (tri) to air	34 kg 1,4-dichlorobenzene eq."/kg
[E738] Trichloromethane (chloroform) to air	13 kg 1,4-dichlorobenzene eq."/kg
[E739] trifluarin to air	1.7 kg 1,4-dichlorobenzene eq."/kg
[E743] vanadium to air	6200 kg 1,4-dichlorobenzene eq."/kg
[E745] Vinyl Chloride (chloroethene) to air	84 kg 1,4-dichlorobenzene eq."/kg
[E748] zinc to air	100 kg 1,4-dichlorobenzene eq."/kg
[E749] zineb to air	4.8 kg 1,4-dichlorobenzene eq."/kg
[E750] 1,1,1-trichloroethane to air	17 kg 1,4-dichlorobenzene eq."/kg
[E751] 1,2,3,4-tetrachlorobenzene to air	160 kg 1,4-dichlorobenzene eq."/kg
[E752] 1,2,3,5-tetrachlorobenzene to air	92 kg 1,4-dichlorobenzene eq."/kg
[E753] 1,2,3-trichlorobenzene to air	130 kg 1,4-dichlorobenzene eq."/kg
[E754] 1,2,4,5-tetrachlorobenzene to air	180 kg 1,4-dichlorobenzene eq."/kg
[E755] 1,2,4-trichlorobenzene to air	120 kg 1,4-dichlorobenzene eq."/kg
[E756] 1,2-dichlorobenzene to air	8.9 kg 1,4-dichlorobenzene eq."/kg
[E757] 1,2-dichloroethane to air	28 kg 1,4-dichlorobenzene eq."/kg
[E758] 1,3,5-trichlorobenzene to air	120 kg 1,4-dichlorobenzene eq."/kg
[E759] 1,3-butadiene to air	7000 kg 1,4-dichlorobenzene eq."/kg
[E760] 1,3-dichlorobenzene to air	74 kg 1,4-dichlorobenzene eq."/kg
[E761] 1,4-dichlorobenzene to air	1.1 kg 1,4-dichlorobenzene eq."/kg
[E762] 1-chloro-4-nitrobenzene to air	1700 kg 1,4-dichlorobenzene eq."/kg
[E763] 2,3,4,6-tetrachlorophenol to air	35 kg 1,4-dichlorobenzene eq."/kg
[E764] 2,3,7,8-TCDD to air	8.60E+08 kg 1,4-dichlorobenzene eq."/kg
[E765] 2,4,5-T to air	1.9 kg 1,4-dichlorobenzene eq."/kg
[E766] 2,4,5-trichlorophenol to air	45 kg 1,4-dichlorobenzene eq."/kg
[E767] 2,4,6-trichlorophenol to fresh water	9100 kg 1,4-dichlorobenzene eq."/kg
[E768] 2,4-D to fresh water	3.5 kg 1,4-dichlorobenzene eq."/kg
[E769] 2,4-dichlorophenol to fresh water	16 kg 1,4-dichlorobenzene eq."/kg
[E770] 2-chlorophenol to fresh water	70 kg 1,4-dichlorobenzene eq."/kg
[E771] 3,4-dichloroaniline to fresh water	130 kg 1,4-dichlorobenzene eq."/kg
[E772] 3-chloroaniline to fresh water	3500 kg 1,4-dichlorobenzene eq."/kg
[E773] 4-chloroaniline to fresh water	2900 kg 1,4-dichlorobenzene eq."/kg

[E774] acephate to fresh water	2.1 kg 1,4-dichlorobenzene eq."/kg
[E775] Acrolein (2-propenal) to fresh water	59 kg 1,4-dichlorobenzene eq."/kg
[E776] acrylonitrile to fresh water	7100 kg 1,4-dichlorobenzene eq."/kg
[E777] aldicarb to fresh water	61 kg 1,4-dichlorobenzene eq."/kg
[E778] aldrin to fresh water	6000 kg 1,4-dichlorobenzene eq."/kg
[E780] anilazine to fresh water	0.24 kg 1,4-dichlorobenzene eq."/kg
[E781] anthracene to fresh water	2.1 kg 1,4-dichlorobenzene eq."/kg
[E782] antimony to fresh water	5100 kg 1,4-dichlorobenzene eq."/kg
[E783] arsenic to fresh water	950 kg 1,4-dichlorobenzene eq."/kg
[E784] atrazine to fresh water	4.6 kg 1,4-dichlorobenzene eq."/kg
[E785] azinphos-ethyl to fresh water	460 kg 1,4-dichlorobenzene eq."/kg
[E786] azinphos-methyl to fresh water	2.5 kg 1,4-dichlorobenzene eq."/kg
[E787] barium to fresh water	630 kg 1,4-dichlorobenzene eq."/kg
[E788] benomyl to fresh water	0.14 kg 1,4-dichlorobenzene eq."/kg
[E789] bentazone to fresh water	0.73 kg 1,4-dichlorobenzene eq."/kg
[E790] benzene to fresh water	1800 kg 1,4-dichlorobenzene eq."/kg
[E795] benzylchloride to fresh water	2400 kg 1,4-dichlorobenzene eq."/kg
[E796] beryllium to fresh water	14000 kg 1,4-dichlorobenzene eq."/kg
[E797] bifenthrin to fresh water	98 kg 1,4-dichlorobenzene eq."/kg
[E800] Butylbenzylphtalate to fresh water	0.086 kg 1,4-dichlorobenzene eq."/kg
[E801] cadmium to fresh water	23 kg 1,4-dichlorobenzene eq."/kg
[E802] captafol to fresh water	500 kg 1,4-dichlorobenzene eq."/kg
[E803] captan to fresh water	0.0053 kg 1,4-dichlorobenzene eq."/kg
[E804] carbaryl to fresh water	4.7 kg 1,4-dichlorobenzene eq."/kg
[E805] carbendazim to fresh water	2.5 kg 1,4-dichlorobenzene eq."/kg
[E806] carbofuran to fresh water	56 kg 1,4-dichlorobenzene eq."/kg
[E807] carbon disulfide to fresh water	2.4 kg 1,4-dichlorobenzene eq."/kg
[E808] Carcinogenic PAHs to fresh water	2.80E+05 kg 1,4-dichlorobenzene eq."/kg
[E810] chlordane to fresh water	740 kg 1,4-dichlorobenzene eq."/kg
[E811] chlorfenvinphos to fresh water	810 kg 1,4-dichlorobenzene eq."/kg
[E812] chloridazon to fresh water	0.14 kg 1,4-dichlorobenzene eq."/kg
[E814] chlorobenzene to fresh water	9.1 kg 1,4-dichlorobenzene eq."/kg
[E815] chlorothalonil to fresh water	6.7 kg 1,4-dichlorobenzene eq."/kg
[E816] chlorpropham to fresh water	1 kg 1,4-dichlorobenzene eq."/kg
[E817] chlorpyriphos to fresh water	44 kg 1,4-dichlorobenzene eq."/kg
[E818] chromium III to fresh water	2.1 kg 1,4-dichlorobenzene eq."/kg
[E819] chromium VI to fresh water	3.4 kg 1,4-dichlorobenzene eq."/kg
[E821] cobalt to fresh water	97 kg 1,4-dichlorobenzene eq."/kg
[E822] copper to fresh water	1.3 kg 1,4-dichlorobenzene eq."/kg
[E823] coumaphos to fresh water	10000 kg 1,4-dichlorobenzene eq."/kg
[E824] cyanazine to fresh water	6 kg 1,4-dichlorobenzene eq."/kg
[E825] cypermethrin to fresh water	5.5 kg 1,4-dichlorobenzene eq."/kg
[E826] cyromazine to fresh water	5.4 kg 1,4-dichlorobenzene eq."/kg
[E827] DDT to fresh water	37 kg 1,4-dichlorobenzene eq."/kg
[E828] deltamethrin to fresh water	2.8 kg 1,4-dichlorobenzene eq."/kg
[E829] demeton to fresh water	720 kg 1,4-dichlorobenzene eq."/kg
[E830] desmetryn to fresh water	50 kg 1,4-dichlorobenzene eq."/kg
[E831] Di(2-ethylhexyl)phtalate to fresh water	0.91 kg 1,4-dichlorobenzene eq."/kg
[E832] diazinon to fresh water	66 kg 1,4-dichlorobenzene eq."/kg
[E833] Dibutylphtalate to fresh water	0.54 kg 1,4-dichlorobenzene eq."/kg
[E834] Dichloromethane (Methylene Chloride) to fresh water	1.8 kg 1,4-dichlorobenzene eq."/kg
[E835] dichlorprop to fresh water	24 kg 1,4-dichlorobenzene eq."/kg
[E836] dichlorvos to fresh water	0.34 kg 1,4-dichlorobenzene eq."/kg
[E837] dieldrin to fresh water	45000 kg 1,4-dichlorobenzene eq."/kg
[E838] Diethylphtalate to fresh water	0.14 kg 1,4-dichlorobenzene eq."/kg
[E839] Dihexylphtalate to fresh water	14000 kg 1,4-dichlorobenzene eq."/kg
[E840] Diisodecylphtalate to fresh water	19 kg 1,4-dichlorobenzene eq."/kg
[E841] Diisooctylphtalate to fresh water	18 kg 1,4-dichlorobenzene eq."/kg
[E842] dimethoate to fresh water	18 kg 1,4-dichlorobenzene eq."/kg
[E843] Dimethylphtalate to fresh water	7.2 kg 1,4-dichlorobenzene eq."/kg
[E844] dinoseb to fresh water	160 kg 1,4-dichlorobenzene eq."/kg
[E845] dinoterb to fresh water	2.5 kg 1,4-dichlorobenzene eq."/kg
[E846] Dioctylphtalate to fresh water	6.3 kg 1,4-dichlorobenzene eq."/kg
[E847] disulfothon to fresh water	340 kg 1,4-dichlorobenzene eq."/kg
[E848] diuron to fresh water	340 kg 1,4-dichlorobenzene eq."/kg
[E849] DNOC to fresh water	59 kg 1,4-dichlorobenzene eq."/kg
[E850] endosulfan to fresh water	17 kg 1,4-dichlorobenzene eq."/kg

[E851] endrin to fresh water	6000 kg 1,4-dichlorobenzene eq."/kg
[E852] ethoprophos to fresh water	1800 kg 1,4-dichlorobenzene eq."/kg
[E853] ethylbenzene to fresh water	0.83 kg 1,4-dichlorobenzene eq."/kg
[E854] ethylene to fresh water	0.65 kg 1,4-dichlorobenzene eq."/kg
[E855] fenitrothion to fresh water	22 kg 1,4-dichlorobenzene eq."/kg
[E856] fenthion to fresh water	93 kg 1,4-dichlorobenzene eq."/kg
[E857] fentin acetate to fresh water	880 kg 1,4-dichlorobenzene eq."/kg
[E858] fentin chloride to fresh water	860 kg 1,4-dichlorobenzene eq."/kg
[E859] fentin hydroxide to fresh water	870 kg 1,4-dichlorobenzene eq."/kg
[E861] folpet to fresh water	8.6 kg 1,4-dichlorobenzene eq."/kg
[E862] Formaldehyde (methanal) to fresh water	0.037 kg 1,4-dichlorobenzene eq."/kg
[E863] glyphosate to fresh water	0.066 kg 1,4-dichlorobenzene eq."/kg
[E864] heptachlor to fresh water	3400 kg 1,4-dichlorobenzene eq."/kg
[E865] heptenophos to fresh water	1.3 kg 1,4-dichlorobenzene eq."/kg
[E866] hexachloro-1,3-butadiene to fresh water	80000 kg 1,4-dichlorobenzene eq."/kg
[E867] hexachlorobenzene to fresh water	5.60E+06 kg 1,4-dichlorobenzene eq."/kg
[E871] iprodione to fresh water	0.18 kg 1,4-dichlorobenzene eq."/kg
[E872] isoproturon to fresh water	13 kg 1,4-dichlorobenzene eq."/kg
[E873] lead to fresh water	12 kg 1,4-dichlorobenzene eq."/kg
[E874] lindane to fresh water	830 kg 1,4-dichlorobenzene eq."/kg
[E875] linuron to fresh water	110 kg 1,4-dichlorobenzene eq."/kg
[E876] malathion to fresh water	0.24 kg 1,4-dichlorobenzene eq."/kg
[E878] MCPA to fresh water	15 kg 1,4-dichlorobenzene eq."/kg
[E879] mecoprop to fresh water	200 kg 1,4-dichlorobenzene eq."/kg
[E880] mercury to fresh water	1400 kg 1,4-dichlorobenzene eq."/kg
[E881] metamitron to fresh water	0.16 kg 1,4-dichlorobenzene eq."/kg
[E882] metazachlor to fresh water	1.7 kg 1,4-dichlorobenzene eq."/kg
[E883] methabenzthiazuron to fresh water	2.6 kg 1,4-dichlorobenzene eq."/kg
[E884] methomyl to fresh water	3.3 kg 1,4-dichlorobenzene eq."/kg
[E885] methylbromide to fresh water	300 kg 1,4-dichlorobenzene eq."/kg
[E886] methyl-mercury to fresh water	15000 kg 1,4-dichlorobenzene eq."/kg
[E887] metobromuron to fresh water	8 kg 1,4-dichlorobenzene eq."/kg
[E888] metolachlor to fresh water	0.55 kg 1,4-dichlorobenzene eq."/kg
[E889] mevinphos to fresh water	11 kg 1,4-dichlorobenzene eq."/kg
[E890] molybdenum to fresh water	5500 kg 1,4-dichlorobenzene eq."/kg
[E891] m-xylene to fresh water	0.34 kg 1,4-dichlorobenzene eq."/kg
[E892] naphtalene to fresh water	5.6 kg 1,4-dichlorobenzene eq."/kg
[E893] nickel to fresh water	330 kg 1,4-dichlorobenzene eq."/kg
[E899] oxamyl to fresh water	0.36 kg 1,4-dichlorobenzene eq."/kg
[E900] oxydemethon-methyl to fresh water	74 kg 1,4-dichlorobenzene eq."/kg
[E901] o-xylene to fresh water	0.42 kg 1,4-dichlorobenzene eq."/kg
[E902] parathion-ethyl to fresh water	31 kg 1,4-dichlorobenzene eq."/kg
[E903] parathion-methyl to fresh water	100 kg 1,4-dichlorobenzene eq."/kg
[E904] pentachlorobenzene to fresh water	1200 kg 1,4-dichlorobenzene eq."/kg
[E905] pentachloronitrobenzene to fresh water	91 kg 1,4-dichlorobenzene eq."/kg
[E906] pentachlorophenol to fresh water	7.2 kg 1,4-dichlorobenzene eq."/kg
[E907] permethrin to fresh water	23 kg 1,4-dichlorobenzene eq."/kg
[E909] phenol to fresh water	0.049 kg 1,4-dichlorobenzene eq."/kg
[E912] phoxim to fresh water	120 kg 1,4-dichlorobenzene eq."/kg
[E913] Phtalic anhydride to fresh water	0.00011 kg 1,4-dichlorobenzene eq."/kg
[E914] pirimicarb to fresh water	1.7 kg 1,4-dichlorobenzene eq."/kg
[E916] propachlor to fresh water	1.6 kg 1,4-dichlorobenzene eq."/kg
[E917] propoxur to fresh water	1.3 kg 1,4-dichlorobenzene eq."/kg
[E918] propylene oxide to fresh water	2600 kg 1,4-dichlorobenzene eq."/kg
[E919] p-xylene to fresh water	0.35 kg 1,4-dichlorobenzene eq."/kg
[E920] pyrazophos to fresh water	53 kg 1,4-dichlorobenzene eq."/kg
[E921] selenium to fresh water	56000 kg 1,4-dichlorobenzene eq."/kg
[E922] simazine to fresh water	9.7 kg 1,4-dichlorobenzene eq."/kg
[E923] styrene (vinylbenzene) to fresh water	0.085 kg 1,4-dichlorobenzene eq."/kg
[E926] tetrachloroethylene (PER) to fresh water	5.7 kg 1,4-dichlorobenzene eq."/kg
[E927] Tetrachloromethane (carbon tetrachloride) (HC-10) to fresh water	220 kg 1,4-dichlorobenzene eq."/kg
[E928] thallium to fresh water	2.30E+05 kg 1,4-dichlorobenzene eq."/kg
[E929] Thiram to fresh water	3.3 kg 1,4-dichlorobenzene eq."/kg
[E930] tin to fresh water	0.017 kg 1,4-dichlorobenzene eq."/kg
[E931] tolclophos-methyl to fresh water	1 kg 1,4-dichlorobenzene eq."/kg
[E932] toluene to fresh water	0.3 kg 1,4-dichlorobenzene eq."/kg
[E933] tri-allate to fresh water	83 kg 1,4-dichlorobenzene eq."/kg

[E934] triazophos to fresh water	320 kg 1,4-dichlorobenzene eq."/kg
[E935] tributyltinoxide to fresh water	3400 kg 1,4-dichlorobenzene eq."/kg
[E936] trichlorfon to fresh water	0.37 kg 1,4-dichlorobenzene eq."/kg
[E937] Trichloroethylene (tri) to fresh water	33 kg 1,4-dichlorobenzene eq."/kg
[E938] Trichloromethane=chloroform to fresh water	13 kg 1,4-dichlorobenzene eq."/kg
[E939] trifluarin to fresh water	97 kg 1,4-dichlorobenzene eq."/kg
[E940] vanadium to fresh water	3200 kg 1,4-dichlorobenzene eq."/kg
[E941] Vinyl Chloride (chloroethene) to fresh water	140 kg 1,4-dichlorobenzene eq."/kg
[E942] zinc to fresh water	0.58 kg 1,4-dichlorobenzene eq."/kg
[E943] zineb to fresh water	1.7 kg 1,4-dichlorobenzene eq."/kg
[E944] 1,1,1-trichloroethane to fresh water	9.9 kg 1,4-dichlorobenzene eq."/kg
[E945] 1,2,3,4-tetrachlorobenzene to fresh water	30 kg 1,4-dichlorobenzene eq."/kg
[E946] 1,2,3,5-tetrachlorobenzene to fresh water	25 kg 1,4-dichlorobenzene eq."/kg
[E947] 1,2,3-trichlorobenzene to fresh water	62 kg 1,4-dichlorobenzene eq."/kg
[E948] 1,2,4,5-tetrachlorobenzene to fresh water	30 kg 1,4-dichlorobenzene eq."/kg
[E949] 1,2,4-trichlorobenzene to fresh water	56 kg 1,4-dichlorobenzene eq."/kg
[E950] 1,2-dichlorobenzene to fresh water	4.1 kg 1,4-dichlorobenzene eq."/kg
[E951] 1,2-dichloroethane to fresh water	5.5 kg 1,4-dichlorobenzene eq."/kg
[E952] 1,3,5-trichlorobenzene to fresh water	54 kg 1,4-dichlorobenzene eq."/kg
[E953] 1,3-butadiene to fresh water	450 kg 1,4-dichlorobenzene eq."/kg
[E954] 1,3-dichlorobenzene to fresh water	30 kg 1,4-dichlorobenzene eq."/kg
[E955] 1,4-dichlorobenzene to fresh water	0.47 kg 1,4-dichlorobenzene eq."/kg
[E956] 1-chloro-4-nitrobenzene to fresh water	220 kg 1,4-dichlorobenzene eq."/kg
[E957] 2,3,4,6-tetrachlorophenol to fresh water	0.26 kg 1,4-dichlorobenzene eq."/kg
[E958] 2,3,7,8-TCDD to fresh water	4.20E+08 kg 1,4-dichlorobenzene eq."/kg
[E959] 2,4,5-T to fresh water	0.0054 kg 1,4-dichlorobenzene eq."/kg
[E960] 2,4,5-trichlorophenol to fresh water	0.61 kg 1,4-dichlorobenzene eq."/kg
[E961] 2,4,6-trichlorophenol to sea water	47 kg 1,4-dichlorobenzene eq."/kg
[E962] 2,4-D to sea water	6.70E-05 kg 1,4-dichlorobenzene eq."/kg
[E963] 2,4-dichlorophenol to sea water	0.065 kg 1,4-dichlorobenzene eq."/kg
[E964] 2-chlorophenol to sea water	0.35 kg 1,4-dichlorobenzene eq."/kg
[E965] 3,4-dichloroaniline to sea water	1.5 kg 1,4-dichlorobenzene eq."/kg
[E966] 3-chloroaniline to sea water	2.1 kg 1,4-dichlorobenzene eq."/kg
[E967] 4-chloroaniline to sea water	4 kg 1,4-dichlorobenzene eq."/kg
[E968] acephate to sea water	0.00051 kg 1,4-dichlorobenzene eq."/kg
[E969] Acrolein (2-propenal) to sea water	0.8 kg 1,4-dichlorobenzene eq."/kg
[E970] acrylonitrile to sea water	51 kg 1,4-dichlorobenzene eq."/kg
[E971] aldicarb to sea water	0.24 kg 1,4-dichlorobenzene eq."/kg
[E972] aldrin to sea water	780 kg 1,4-dichlorobenzene eq."/kg
[E974] anilazine to sea water	0.00082 kg 1,4-dichlorobenzene eq."/kg
[E975] anthracene to sea water	0.16 kg 1,4-dichlorobenzene eq."/kg
[E976] antimony to sea water	8600 kg 1,4-dichlorobenzene eq."/kg
[E977] arsenic to sea water	2400 kg 1,4-dichlorobenzene eq."/kg
[E978] atrazine to sea water	0.018 kg 1,4-dichlorobenzene eq."/kg
[E979] azinphos-ethyl to sea water	1.6 kg 1,4-dichlorobenzene eq."/kg
[E980] azinphos-methyl to sea water	0.0057 kg 1,4-dichlorobenzene eq."/kg
[E981] barium to sea water	800 kg 1,4-dichlorobenzene eq."/kg
[E982] benomyl to sea water	0.00024 kg 1,4-dichlorobenzene eq."/kg
[E983] bentazone to sea water	0.0022 kg 1,4-dichlorobenzene eq."/kg
[E984] benzene to sea water	210 kg 1,4-dichlorobenzene eq."/kg
[E989] benzylchloride to sea water	55 kg 1,4-dichlorobenzene eq."/kg
[E990] beryllium to sea water	16000 kg 1,4-dichlorobenzene eq."/kg
[E991] bifenthrin to sea water	0.75 kg 1,4-dichlorobenzene eq."/kg
[E994] Butylbenzylphtalate to sea water	0.00085 kg 1,4-dichlorobenzene eq."/kg
[E995] cadmium to sea water	100 kg 1,4-dichlorobenzene eq."/kg
[E996] captafol to sea water	9.7 kg 1,4-dichlorobenzene eq."/kg
[E997] captan to sea water	5.40E-06 kg 1,4-dichlorobenzene eq."/kg
[E998] carbaryl to sea water	0.0019 kg 1,4-dichlorobenzene eq."/kg
[E999] carbendazim to sea water	0.002 kg 1,4-dichlorobenzene eq."/kg
[E1000] carbofuran to sea water	0.21 kg 1,4-dichlorobenzene eq."/kg
[E1001] carbon disulfide to sea water	0.48 kg 1,4-dichlorobenzene eq."/kg
[E1002] Carcinogenic PAHs to sea water	29000 kg 1,4-dichlorobenzene eq."/kg
[E1004] chlordane to sea water	1200 kg 1,4-dichlorobenzene eq."/kg
[E1005] chlorfenvinphos to sea water	3.8 kg 1,4-dichlorobenzene eq."/kg
[E1006] chloridazon to sea water	0.0021 kg 1,4-dichlorobenzene eq."/kg
[E1008] chlorobenzene to sea water	5.2 kg 1,4-dichlorobenzene eq."/kg
[E1009] chlorothalonil to sea water	0.45 kg 1,4-dichlorobenzene eq."/kg

[E1010] chlorpropham to sea water	0.0043 kg 1,4-dichlorobenzene eq."/kg
[E1011] chlorpyriphos to sea water	0.038 kg 1,4-dichlorobenzene eq."/kg
[E1012] chromium III to sea water	10 kg 1,4-dichlorobenzene eq."/kg
[E1013] chromium VI to sea water	17 kg 1,4-dichlorobenzene eq."/kg
[E1015] cobalt to sea water	60 kg 1,4-dichlorobenzene eq."/kg
[E1016] copper to sea water	5.9 kg 1,4-dichlorobenzene eq."/kg
[E1017] coumaphos to sea water	220 kg 1,4-dichlorobenzene eq."/kg
[E1018] cyanazine to sea water	0.0096 kg 1,4-dichlorobenzene eq."/kg
[E1019] cypermethrin to sea water	0.026 kg 1,4-dichlorobenzene eq."/kg
[E1020] cyromazine to sea water	0.0026 kg 1,4-dichlorobenzene eq."/kg
[E1021] DDT to sea water	34 kg 1,4-dichlorobenzene eq."/kg
[E1022] deltamethrin to sea water	0.033 kg 1,4-dichlorobenzene eq."/kg
[E1023] demeton to sea water	0.3 kg 1,4-dichlorobenzene eq."/kg
[E1024] desmetryn to sea water	0.12 kg 1,4-dichlorobenzene eq."/kg
[E1025] Di(2-ethylhexyl)phtalate to sea water	0.04 kg 1,4-dichlorobenzene eq."/kg
[E1026] diazinon to sea water	0.27 kg 1,4-dichlorobenzene eq."/kg
[E1027] Dibutylphtalate to sea water	0.003 kg 1,4-dichlorobenzene eq."/kg
[E1028] Dichloromethane (Methylene Chloride) to sea water	0.3 kg 1,4-dichlorobenzene eq."/kg
[E1029] dichlorprop to sea water	0.097 kg 1,4-dichlorobenzene eq."/kg
[E1030] dichlorvos to sea water	0.0023 kg 1,4-dichlorobenzene eq."/kg
[E1031] dieldrin to sea water	5500 kg 1,4-dichlorobenzene eq."/kg
[E1032] Diethylphtalate to sea water	0.00057 kg 1,4-dichlorobenzene eq."/kg
[E1033] Dihexylphtalate to sea water	370 kg 1,4-dichlorobenzene eq."/kg
[E1034] Diisodecylphtalate to sea water	3.2 kg 1,4-dichlorobenzene eq."/kg
[E1035] Diisooctylphtalate to sea water	9.7 kg 1,4-dichlorobenzene eq."/kg
[E1036] dimethoate to sea water	0.0033 kg 1,4-dichlorobenzene eq."/kg
[E1037] Dimethylphtalate to sea water	0.0084 kg 1,4-dichlorobenzene eq."/kg
[E1038] dinoseb to sea water	0.63 kg 1,4-dichlorobenzene eq."/kg
[E1039] dinoterb to sea water	0.0029 kg 1,4-dichlorobenzene eq."/kg
[E1040] Dioctylphtalate to sea water	1.3 kg 1,4-dichlorobenzene eq."/kg
[E1041] disulfothon to sea water	1.5 kg 1,4-dichlorobenzene eq."/kg
[E1042] diuron to sea water	1.5 kg 1,4-dichlorobenzene eq."/kg
[E1043] DNOC to sea water	0.0015 kg 1,4-dichlorobenzene eq."/kg
[E1044] endosulfan to sea water	0.042 kg 1,4-dichlorobenzene eq."/kg
[E1045] endrin to sea water	1600 kg 1,4-dichlorobenzene eq."/kg
[E1046] ethoprophos to sea water	13 kg 1,4-dichlorobenzene eq."/kg
[E1047] ethylbenzene to sea water	0.07 kg 1,4-dichlorobenzene eq."/kg
[E1048] ethylene to sea water	0.047 kg 1,4-dichlorobenzene eq."/kg
[E1049] fenitrothion to sea water	0.09 kg 1,4-dichlorobenzene eq."/kg
[E1050] fenthion to sea water	0.46 kg 1,4-dichlorobenzene eq."/kg
[E1051] fentin acetate to sea water	4.1 kg 1,4-dichlorobenzene eq."/kg
[E1052] fentin chloride to sea water	12 kg 1,4-dichlorobenzene eq."/kg
[E1053] fentin hydroxide to sea water	4.1 kg 1,4-dichlorobenzene eq."/kg
[E1055] folpet to sea water	0.31 kg 1,4-dichlorobenzene eq."/kg
[E1056] Formaldehyde (methanal) to sea water	2.80E-05 kg 1,4-dichlorobenzene eq."/kg
[E1057] glyphosate to sea water	1.50E-05 kg 1,4-dichlorobenzene eq."/kg
[E1058] heptachlor to sea water	43 kg 1,4-dichlorobenzene eq."/kg
[E1059] heptenophos to sea water	0.0023 kg 1,4-dichlorobenzene eq."/kg
[E1060] hexachloro-1,3-butadiene to sea water	39000 kg 1,4-dichlorobenzene eq."/kg
[E1061] hexachlorobenzene to sea water	3.40E+06 kg 1,4-dichlorobenzene eq."/kg
[E1065] iprodione to sea water	0.00012 kg 1,4-dichlorobenzene eq."/kg
[E1066] isoproturon to sea water	0.029 kg 1,4-dichlorobenzene eq."/kg
[E1067] lead to sea water	79 kg 1,4-dichlorobenzene eq."/kg
[E1068] lindane to sea water	6.1 kg 1,4-dichlorobenzene eq."/kg
[E1069] linuron to sea water	0.65 kg 1,4-dichlorobenzene eq."/kg
[E1070] malathion to sea water	0.00084 kg 1,4-dichlorobenzene eq."/kg
[E1072] MCPA to sea water	0.037 kg 1,4-dichlorobenzene eq."/kg
[E1073] mecoprop to sea water	0.84 kg 1,4-dichlorobenzene eq."/kg
[E1074] mercury to sea water	8200 kg 1,4-dichlorobenzene eq."/kg
[E1075] metamitron to sea water	3.20E-05 kg 1,4-dichlorobenzene eq."/kg
[E1076] metazachlor to sea water	0.0024 kg 1,4-dichlorobenzene eq."/kg
[E1077] methabenzthiazuron to sea water	0.0082 kg 1,4-dichlorobenzene eq."/kg
[E1078] methomyl to sea water	0.0014 kg 1,4-dichlorobenzene eq."/kg
[E1079] methylbromide to sea water	25 kg 1,4-dichlorobenzene eq."/kg
[E1080] methyl-mercury to sea water	88000 kg 1,4-dichlorobenzene eq."/kg
[E1081] metobromuron to sea water	0.076 kg 1,4-dichlorobenzene eq."/kg
[E1082] metolachlor to sea water	0.00085 kg 1,4-dichlorobenzene eq."/kg

[E1083] mevinphos to sea water	0.0018 kg 1,4-dichlorobenzene eq."/kg
[E1084] molybdenum to sea water	6800 kg 1,4-dichlorobenzene eq."/kg
[E1085] m-xylene to sea water	0.01 kg 1,4-dichlorobenzene eq."/kg
[E1086] naphtalene to sea water	0.19 kg 1,4-dichlorobenzene eq."/kg
[E1087] nickel to sea water	750 kg 1,4-dichlorobenzene eq."/kg
[E1093] oxamyl to sea water	1.40E-05 kg 1,4-dichlorobenzene eq."/kg
[E1094] oxydemethon-methyl to sea water	0.01 kg 1,4-dichlorobenzene eq."/kg
[E1095] o-xylene to sea water	0.026 kg 1,4-dichlorobenzene eq."/kg
[E1096] parathion-ethyl to sea water	0.18 kg 1,4-dichlorobenzene eq."/kg
[E1097] parathion-methyl to sea water	0.54 kg 1,4-dichlorobenzene eq."/kg
[E1098] pentachlorobenzene to sea water	410 kg 1,4-dichlorobenzene eq."/kg
[E1099] pentachloronitrobenzene to sea water	46 kg 1,4-dichlorobenzene eq."/kg
[E1100] pentachlorophenol to sea water	0.14 kg 1,4-dichlorobenzene eq."/kg
[E1101] permethrin to sea water	0.26 kg 1,4-dichlorobenzene eq."/kg
[E1103] phenol to sea water	8.00E-05 kg 1,4-dichlorobenzene eq."/kg
[E1106] phoxim to sea water	0.29 kg 1,4-dichlorobenzene eq."/kg
[E1107] Phtalic anhydride to sea water	1.00E-07 kg 1,4-dichlorobenzene eq."/kg
[E1108] pirimicarb to sea water	0.0013 kg 1,4-dichlorobenzene eq."/kg
[E1110] propachlor to sea water	0.0026 kg 1,4-dichlorobenzene eq."/kg
[E1111] propoxur to sea water	0.00039 kg 1,4-dichlorobenzene eq."/kg
[E1112] propylene oxide to sea water	16 kg 1,4-dichlorobenzene eq."/kg
[E1113] p-xylene to sea water	0.013 kg 1,4-dichlorobenzene eq."/kg
[E1114] pyrazophos to sea water	0.23 kg 1,4-dichlorobenzene eq."/kg
[E1115] selenium to sea water	63000 kg 1,4-dichlorobenzene eq."/kg
[E1116] simazine to sea water	0.016 kg 1,4-dichlorobenzene eq."/kg
[E1117] styrene (vinylbenzene) to sea water	0.01 kg 1,4-dichlorobenzene eq."/kg
[E1120] tetrachloroethylene (PER) to sea water	2.8 kg 1,4-dichlorobenzene eq."/kg
[E1121] Tetrachloromethane (carbon tetrachloride) (HC-10) to sea water	170 kg 1,4-dichlorobenzene eq."/kg
[E1122] thallium to sea water	2.90E+05 kg 1,4-dichlorobenzene eq."/kg
[E1123] Thiram to sea water	0.00066 kg 1,4-dichlorobenzene eq."/kg
[E1124] tin to sea water	0.11 kg 1,4-dichlorobenzene eq."/kg
[E1125] tolclophos-methyl to sea water	0.065 kg 1,4-dichlorobenzene eq."/kg
[E1126] toluene to sea water	0.039 kg 1,4-dichlorobenzene eq."/kg
[E1127] tri-allate to sea water	1.2 kg 1,4-dichlorobenzene eq."/kg
[E1128] triazophos to sea water	1.6 kg 1,4-dichlorobenzene eq."/kg
[E1129] tributyltinoxide to sea water	55 kg 1,4-dichlorobenzene eq."/kg
[E1130] trichlorfon to sea water	3.10E-05 kg 1,4-dichlorobenzene eq."/kg
[E1131] Trichloroethylene (tri) to sea water	14 kg 1,4-dichlorobenzene eq."/kg
[E1132] Trichloromethane=chloroform to sea water	6 kg 1,4-dichlorobenzene eq."/kg
[E1133] trifluarin to sea water	6 kg 1,4-dichlorobenzene eq."/kg
[E1134] vanadium to sea water	6200 kg 1,4-dichlorobenzene eq."/kg
[E1135] Vinyl Chloride (chloroethene) to sea water	43 kg 1,4-dichlorobenzene eq."/kg
[E1136] zinc to sea water	3.2 kg 1,4-dichlorobenzene eq."/kg
[E1137] zineb to sea water	0.00082 kg 1,4-dichlorobenzene eq."/kg
[E1138] 1,1,1-trichloroethane to sea water	16 kg 1,4-dichlorobenzene eq."/kg
[E1139] 1,2,3,4-tetrachlorobenzene to sea water	80 kg 1,4-dichlorobenzene eq."/kg
[E1140] 1,2,3,5-tetrachlorobenzene to sea water	180 kg 1,4-dichlorobenzene eq."/kg
[E1141] 1,2,3-trichlorobenzene to sea water	56 kg 1,4-dichlorobenzene eq."/kg
[E1142] 1,2,4,5-tetrachlorobenzene to sea water	84 kg 1,4-dichlorobenzene eq."/kg
[E1143] 1,2,4-trichlorobenzene to sea water	42 kg 1,4-dichlorobenzene eq."/kg
[E1144] 1,2-dichlorobenzene to sea water	7.3 kg 1,4-dichlorobenzene eq."/kg
[E1145] 1,2-dichloroethane to sea water	1300 kg 1,4-dichlorobenzene eq."/kg
[E1146] 1,3,5-trichlorobenzene to sea water	69 kg 1,4-dichlorobenzene eq."/kg
[E1147] 1,3-butadiene to sea water	3100 kg 1,4-dichlorobenzene eq."/kg
[E1148] 1,3-dichlorobenzene to sea water	250 kg 1,4-dichlorobenzene eq."/kg
[E1149] 1,4-dichlorobenzene to sea water	2.9 kg 1,4-dichlorobenzene eq."/kg
[E1150] 1-chloro-4-nitrobenzene to sea water	22000 kg 1,4-dichlorobenzene eq."/kg
[E1151] 2,3,4,6-tetrachlorophenol to sea water	31 kg 1,4-dichlorobenzene eq."/kg
[E1152] 2,3,7,8-TCDD to sea water	1.30E+09 kg 1,4-dichlorobenzene eq."/kg
[E1153] 2,4,5-T to sea water	5.8 kg 1,4-dichlorobenzene eq."/kg
[E1154] 2,4,5-trichlorophenol to sea water	5.3 kg 1,4-dichlorobenzene eq."/kg
[E1155] 2,4,6-trichlorophenol to agricultural soil	1800 kg 1,4-dichlorobenzene eq."/kg
[E1156] 2,4-D to agricultural soil	47 kg 1,4-dichlorobenzene eq."/kg
[E1157] 2,4-dichlorophenol to agricultural soil	740 kg 1,4-dichlorobenzene eq."/kg
[E1158] 2-chlorophenol to agricultural soil	8.3 kg 1,4-dichlorobenzene eq."/kg
[E1159] 3,4-dichloroaniline to agricultural soil	1700 kg 1,4-dichlorobenzene eq."/kg
[E1160] 3-chloroaniline to agricultural soil	30000 kg 1,4-dichlorobenzene eq."/kg

[E1161] 4-chloroaniline to agricultural soil	35000 kg 1,4-dichlorobenzene eq."/kg
[E1162] acephate to agricultural soil	22 kg 1,4-dichlorobenzene eq."/kg
[E1163] Acrolein (2-propenal) to agricultural soil	230 kg 1,4-dichlorobenzene eq."/kg
[E1164] acrylonitrile to agricultural soil	4.90E+05 kg 1,4-dichlorobenzene eq."/kg
[E1165] aldicarb to agricultural soil	510 kg 1,4-dichlorobenzene eq."/kg
[E1166] aldrin to agricultural soil	4700 kg 1,4-dichlorobenzene eq."/kg
[E1168] anilazine to agricultural soil	0.08 kg 1,4-dichlorobenzene eq."/kg
[E1169] anthracene to agricultural soil	0.51 kg 1,4-dichlorobenzene eq."/kg
[E1170] antimony to agricultural soil	8900 kg 1,4-dichlorobenzene eq."/kg
[E1171] arsenic to agricultural soil	32000 kg 1,4-dichlorobenzene eq."/kg
[E1172] atrazine to agricultural soil	21 kg 1,4-dichlorobenzene eq."/kg
[E1173] azinphos-ethyl to agricultural soil	760 kg 1,4-dichlorobenzene eq."/kg
[E1174] azinphos-methyl to agricultural soil	39 kg 1,4-dichlorobenzene eq."/kg
[E1175] barium to agricultural soil	360 kg 1,4-dichlorobenzene eq."/kg
[E1176] benomyl to agricultural soil	0.43 kg 1,4-dichlorobenzene eq."/kg
[E1177] bentazone to agricultural soil	15 kg 1,4-dichlorobenzene eq."/kg
[E1178] benzene to agricultural soil	15000 kg 1,4-dichlorobenzene eq."/kg
[E1183] benzylchloride to agricultural soil	5500 kg 1,4-dichlorobenzene eq."/kg
[E1184] beryllium to agricultural soil	13000 kg 1,4-dichlorobenzene eq."/kg
[E1185] bifenthrin to agricultural soil	29 kg 1,4-dichlorobenzene eq."/kg
[E1186] Butylbenzylphtalate to agricultural soil	0.31 kg 1,4-dichlorobenzene eq."/kg
[E1187] cadmium to agricultural soil	20000 kg 1,4-dichlorobenzene eq."/kg
[E1188] captafol to agricultural soil	960 kg 1,4-dichlorobenzene eq."/kg
[E1189] captan to agricultural soil	0.097 kg 1,4-dichlorobenzene eq."/kg
[E1190] carbaryl to agricultural soil	21 kg 1,4-dichlorobenzene eq."/kg
[E1191] carbendazim to agricultural soil	140 kg 1,4-dichlorobenzene eq."/kg
[E1192] carbofuran to agricultural soil	1400 kg 1,4-dichlorobenzene eq."/kg
[E1193] carbon disulfide to agricultural soil	3.6 kg 1,4-dichlorobenzene eq."/kg
[E1194] Carcinogenic PAHs to agricultural soil	71000 kg 1,4-dichlorobenzene eq."/kg
[E1195] chlordane to agricultural soil	2800 kg 1,4-dichlorobenzene eq."/kg
[E1196] chlorfenvinphos to agricultural soil	1200 kg 1,4-dichlorobenzene eq."/kg
[E1197] chloridazon to agricultural soil	2.2 kg 1,4-dichlorobenzene eq."/kg
[E1198] chlorobenzene to agricultural soil	7.1 kg 1,4-dichlorobenzene eq."/kg
[E1199] chlorothalonil to agricultural soil	0.94 kg 1,4-dichlorobenzene eq."/kg
[E1200] chlorpropham to agricultural soil	2.1 kg 1,4-dichlorobenzene eq."/kg
[E1201] chlorpyriphos to agricultural soil	14 kg 1,4-dichlorobenzene eq."/kg
[E1202] chromium III to agricultural soil	5100 kg 1,4-dichlorobenzene eq."/kg
[E1203] chromium VI to agricultural soil	8500 kg 1,4-dichlorobenzene eq."/kg
[E1205] cobalt to agricultural soil	2400 kg 1,4-dichlorobenzene eq."/kg
[E1206] copper to agricultural soil	94 kg 1,4-dichlorobenzene eq."/kg
[E1207] coumaphos to agricultural soil	11000 kg 1,4-dichlorobenzene eq."/kg
[E1208] cyanazine to agricultural soil	24 kg 1,4-dichlorobenzene eq."/kg
[E1209] cypermethrin to agricultural soil	5200 kg 1,4-dichlorobenzene eq."/kg
[E1210] cyromazine to agricultural soil	280 kg 1,4-dichlorobenzene eq."/kg
[E1211] DDT to agricultural soil	270 kg 1,4-dichlorobenzene eq."/kg
[E1212] deltamethrin to agricultural soil	0.16 kg 1,4-dichlorobenzene eq."/kg
[E1213] demeton to agricultural soil	5700 kg 1,4-dichlorobenzene eq."/kg
[E1214] desmetryn to agricultural soil	650 kg 1,4-dichlorobenzene eq."/kg
[E1215] Di(2-ethylhexyl)phtalate to agricultural soil	1.8 kg 1,4-dichlorobenzene eq."/kg
[E1216] diazinon to agricultural soil	120 kg 1,4-dichlorobenzene eq."/kg
[E1217] Dibutylphtalate to agricultural soil	1.3 kg 1,4-dichlorobenzene eq."/kg
[E1218] Dichloromethane (Methylene Chloride) to agricultural soil	2.4 kg 1,4-dichlorobenzene eq."/kg
[E1219] dichlorprop to agricultural soil	4.5 kg 1,4-dichlorobenzene eq."/kg
[E1220] dichlorvos to agricultural soil	0.97 kg 1,4-dichlorobenzene eq."/kg
[E1221] dieldrin to agricultural soil	7600 kg 1,4-dichlorobenzene eq."/kg
[E1222] Diethylphtalate to agricultural soil	0.057 kg 1,4-dichlorobenzene eq."/kg
[E1223] Dihexylphtalate to agricultural soil	1200 kg 1,4-dichlorobenzene eq."/kg
[E1224] Diisodecylphtalate to agricultural soil	110 kg 1,4-dichlorobenzene eq."/kg
[E1225] Diisooctylphtalate to agricultural soil	32 kg 1,4-dichlorobenzene eq."/kg
[E1226] dimethoate to agricultural soil	320 kg 1,4-dichlorobenzene eq."/kg
[E1227] Dimethylphtalate to agricultural soil	28 kg 1,4-dichlorobenzene eq."/kg
[E1228] dinoseb to agricultural soil	560 kg 1,4-dichlorobenzene eq."/kg
[E1229] dinoterb to agricultural soil	0.36 kg 1,4-dichlorobenzene eq."/kg
[E1230] Dioctylphtalate to agricultural soil	8.6 kg 1,4-dichlorobenzene eq."/kg
[E1231] disulfothon to agricultural soil	170 kg 1,4-dichlorobenzene eq."/kg
[E1232] diuron to agricultural soil	170 kg 1,4-dichlorobenzene eq."/kg
[E1233] DNOC to agricultural soil	280 kg 1,4-dichlorobenzene eq."/kg

[E1234] endosulfan to agricultural soil	0.26 kg 1,4-dichlorobenzene eq."/kg
[E1235] endrin to agricultural soil	8400 kg 1,4-dichlorobenzene eq."/kg
[E1236] ethoprophos to agricultural soil	5700 kg 1,4-dichlorobenzene eq."/kg
[E1237] ethylbenzene to agricultural soil	0.75 kg 1,4-dichlorobenzene eq."/kg
[E1238] ethylene to agricultural soil	0.78 kg 1,4-dichlorobenzene eq."/kg
[E1239] fenitrothion to agricultural soil	12 kg 1,4-dichlorobenzene eq."/kg
[E1240] fenthion to agricultural soil	30 kg 1,4-dichlorobenzene eq."/kg
[E1241] fentin acetate to agricultural soil	72 kg 1,4-dichlorobenzene eq."/kg
[E1242] fentin chloride to agricultural soil	130 kg 1,4-dichlorobenzene eq."/kg
[E1243] fentin hydroxide to agricultural soil	88 kg 1,4-dichlorobenzene eq."/kg
[E1245] folpet to agricultural soil	13 kg 1,4-dichlorobenzene eq."/kg
[E1246] Formaldehyde (methanal) to agricultural soil	2.3 kg 1,4-dichlorobenzene eq."/kg
[E1247] glyphosate to agricultural soil	0.015 kg 1,4-dichlorobenzene eq."/kg
[E1248] heptachlor to agricultural soil	670 kg 1,4-dichlorobenzene eq."/kg
[E1249] heptenophos to agricultural soil	3.4 kg 1,4-dichlorobenzene eq."/kg
[E1250] hexachloro-1,3-butadiene to agricultural soil	30000 kg 1,4-dichlorobenzene eq."/kg
[E1251] hexachlorobenzene to agricultural soil	3.30E+07 kg 1,4-dichlorobenzene eq."/kg
[E1255] iprodione to agricultural soil	1.8 kg 1,4-dichlorobenzene eq."/kg
[E1256] isoproturon to agricultural soil	960 kg 1,4-dichlorobenzene eq."/kg
[E1257] lead to agricultural soil	3300 kg 1,4-dichlorobenzene eq."/kg
[E1258] lindane to agricultural soil	490 kg 1,4-dichlorobenzene eq."/kg
[E1259] linuron to agricultural soil	170 kg 1,4-dichlorobenzene eq."/kg
[E1260] malathion to agricultural soil	0.026 kg 1,4-dichlorobenzene eq."/kg
[E1261] MCPA to agricultural soil	100 kg 1,4-dichlorobenzene eq."/kg
[E1262] mecoprop to agricultural soil	740 kg 1,4-dichlorobenzene eq."/kg
[E1263] mercury to agricultural soil	5900 kg 1,4-dichlorobenzene eq."/kg
[E1264] metamitron to agricultural soil	6.5 kg 1,4-dichlorobenzene eq."/kg
[E1265] metazachlor to agricultural soil	49 kg 1,4-dichlorobenzene eq."/kg
[E1266] methabenzthiazuron to agricultural soil	51 kg 1,4-dichlorobenzene eq."/kg
[E1267] methomyl to agricultural soil	43 kg 1,4-dichlorobenzene eq."/kg
[E1268] methylbromide to agricultural soil	260 kg 1,4-dichlorobenzene eq."/kg
[E1269] methyl-mercury to agricultural soil	20000 kg 1,4-dichlorobenzene eq."/kg
[E1270] metobromuron to agricultural soil	410 kg 1,4-dichlorobenzene eq."/kg
[E1271] metolachlor to agricultural soil	11 kg 1,4-dichlorobenzene eq."/kg
[E1272] mevinphos to agricultural soil	5.7 kg 1,4-dichlorobenzene eq."/kg
[E1273] molybdenum to agricultural soil	6200 kg 1,4-dichlorobenzene eq."/kg
[E1274] m-xylene to agricultural soil	3.8 kg 1,4-dichlorobenzene eq."/kg
[E1275] naphtalene to agricultural soil	4.8 kg 1,4-dichlorobenzene eq."/kg
[E1276] nickel to agricultural soil	2700 kg 1,4-dichlorobenzene eq."/kg
[E1278] oxamyl to agricultural soil	10 kg 1,4-dichlorobenzene eq."/kg
[E1279] oxydemethon-methyl to agricultural soil	610 kg 1,4-dichlorobenzene eq."/kg
[E1280] o-xylene to agricultural soil	5 kg 1,4-dichlorobenzene eq."/kg
[E1281] parathion-ethyl to agricultural soil	2.9 kg 1,4-dichlorobenzene eq."/kg
[E1282] parathion-methyl to agricultural soil	24 kg 1,4-dichlorobenzene eq."/kg
[E1283] pentachlorobenzene to agricultural soil	4500 kg 1,4-dichlorobenzene eq."/kg
[E1284] pentachloronitrobenzene to agricultural soil	72 kg 1,4-dichlorobenzene eq."/kg
[E1285] pentachlorophenol to agricultural soil	0.15 kg 1,4-dichlorobenzene eq."/kg
[E1286] permethrin to agricultural soil	11 kg 1,4-dichlorobenzene eq."/kg
[E1288] phenol to agricultural soil	1.9 kg 1,4-dichlorobenzene eq."/kg
[E1289] phoxim to agricultural soil	25 kg 1,4-dichlorobenzene eq."/kg
[E1290] Phtalic anhydride to agricultural soil	0.01 kg 1,4-dichlorobenzene eq."/kg
[E1291] pirimicarb to agricultural soil	26 kg 1,4-dichlorobenzene eq."/kg
[E1293] propachlor to agricultural soil	15 kg 1,4-dichlorobenzene eq."/kg
[E1294] propoxur to agricultural soil	270 kg 1,4-dichlorobenzene eq."/kg
[E1295] propylene oxide to agricultural soil	2.20E+05 kg 1,4-dichlorobenzene eq."/kg
[E1296] p-xylene to agricultural soil	3 kg 1,4-dichlorobenzene eq."/kg
[E1297] pyrazophos to agricultural soil	51 kg 1,4-dichlorobenzene eq."/kg
[E1298] selenium to agricultural soil	29000 kg 1,4-dichlorobenzene eq."/kg
[E1299] simazine to agricultural soil	210 kg 1,4-dichlorobenzene eq."/kg
[E1300] styrene (vinylbenzene) to agricultural soil	0.48 kg 1,4-dichlorobenzene eq."/kg
[E1302] tetrachloroethylene (PER) to agricultural soil	6.4 kg 1,4-dichlorobenzene eq."/kg
[E1303] Tetrachloromethane (carbon tetrachloride) (HC-10) to agricultural soil	220 kg 1,4-dichlorobenzene eq."/kg
[E1304] thallium to agricultural soil	2.00E+06 kg 1,4-dichlorobenzene eq."/kg
[E1305] Thiram to agricultural soil	7.9 kg 1,4-dichlorobenzene eq."/kg
[E1306] tin to agricultural soil	13 kg 1,4-dichlorobenzene eq."/kg
[E1307] tolclophos-methyl to agricultural soil	11 kg 1,4-dichlorobenzene eq."/kg
[E1308] toluene to agricultural soil	0.35 kg 1,4-dichlorobenzene eq."/kg

[E1309] tri-allate to agricultural soil	5.8 kg 1,4-dichlorobenzene eq."/kg
[E1310] triazophos to agricultural soil	1200 kg 1,4-dichlorobenzene eq."/kg
[E1311] tributyltinoxide to agricultural soil	290 kg 1,4-dichlorobenzene eq."/kg
[E1312] trichlorfon to agricultural soil	33 kg 1,4-dichlorobenzene eq."/kg
[E1313] Trichloroethylene (tri) to agricultural soil	32 kg 1,4-dichlorobenzene eq."/kg
[E1314] Trichloromethane=chloroform to agricultural soil	14 kg 1,4-dichlorobenzene eq."/kg
[E1315] trifluarin to agricultural soil	120 kg 1,4-dichlorobenzene eq."/kg
[E1316] vanadium to agricultural soil	19000 kg 1,4-dichlorobenzene eq."/kg
[E1317] Vinyl Chloride (chloroethene) to agricultural soil	520 kg 1,4-dichlorobenzene eq."/kg
[E1318] zinc to agricultural soil	64 kg 1,4-dichlorobenzene eq."/kg
[E1319] zineb to agricultural soil	20 kg 1,4-dichlorobenzene eq."/kg
[E1320] 1,1,1-trichloroethane to agricultural soil	16 kg 1,4-dichlorobenzene eq."/kg
[E1321] 1,2,3,4-tetrachlorobenzene to agricultural soil	5.2 kg 1,4-dichlorobenzene eq."/kg
[E1322] 1,2,3,5-tetrachlorobenzene to agricultural soil	14 kg 1,4-dichlorobenzene eq."/kg
[E1323] 1,2,3-trichlorobenzene to agricultural soil	54 kg 1,4-dichlorobenzene eq."/kg
[E1324] 1,2,4,5-tetrachlorobenzene to agricultural soil	5.4 kg 1,4-dichlorobenzene eq."/kg
[E1325] 1,2,4-trichlorobenzene to agricultural soil	43 kg 1,4-dichlorobenzene eq."/kg
[E1326] 1,2-dichlorobenzene to agricultural soil	6.9 kg 1,4-dichlorobenzene eq."/kg
[E1327] 1,2-dichloroethane to agricultural soil	5.7 kg 1,4-dichlorobenzene eq."/kg
[E1328] 1,3,5-trichlorobenzene to agricultural soil	52 kg 1,4-dichlorobenzene eq."/kg
[E1329] 1,3-butadiene to agricultural soil	2200 kg 1,4-dichlorobenzene eq."/kg
[E1330] 1,3-dichlorobenzene to agricultural soil	50 kg 1,4-dichlorobenzene eq."/kg
[E1331] 1,4-dichlorobenzene to agricultural soil	0.74 kg 1,4-dichlorobenzene eq."/kg
[E1332] 1-chloro-4-nitrobenzene to agricultural soil	460 kg 1,4-dichlorobenzene eq."/kg
[E1333] 2,3,4,6-tetrachlorophenol to agricultural soil	1.6 kg 1,4-dichlorobenzene eq."/kg
[E1334] 2,3,7,8-TCDD to agricultural soil	1.00E+07 kg 1,4-dichlorobenzene eq."/kg
[E1335] 2,4,5-T to agricultural soil	0.18 kg 1,4-dichlorobenzene eq."/kg
[E1336] 2,4,5-trichlorophenol to agricultural soil	2.9 kg 1,4-dichlorobenzene eq."/kg
[E1337] 2,4,6-trichlorophenol to industrial soil	170 kg 1,4-dichlorobenzene eq."/kg
[E1338] 2,4-D to industrial soil	0.72 kg 1,4-dichlorobenzene eq."/kg
[E1339] 2,4-dichlorophenol to industrial soil	1.9 kg 1,4-dichlorobenzene eq."/kg
[E1340] 2-chlorophenol to industrial soil	1.4 kg 1,4-dichlorobenzene eq."/kg
[E1341] 3,4-dichloroaniline to industrial soil	31 kg 1,4-dichlorobenzene eq."/kg
[E1342] 3-chloroaniline to industrial soil	460 kg 1,4-dichlorobenzene eq."/kg
[E1343] 4-chloroaniline to industrial soil	510 kg 1,4-dichlorobenzene eq."/kg
[E1344] acephate to industrial soil	0.31 kg 1,4-dichlorobenzene eq."/kg
[E1345] Acrolein (2-propenal) to industrial soil	17 kg 1,4-dichlorobenzene eq."/kg
[E1346] acrylonitrile to industrial soil	1500 kg 1,4-dichlorobenzene eq."/kg
[E1347] aldicarb to industrial soil	13 kg 1,4-dichlorobenzene eq."/kg
[E1348] aldrin to industrial soil	160 kg 1,4-dichlorobenzene eq."/kg
[E1350] anilazine to industrial soil	0.0003 kg 1,4-dichlorobenzene eq."/kg
[E1351] anthracene to industrial soil	0.02 kg 1,4-dichlorobenzene eq."/kg
[E1352] antimony to industrial soil	2600 kg 1,4-dichlorobenzene eq."/kg
[E1353] arsenic to industrial soil	1000 kg 1,4-dichlorobenzene eq."/kg
[E1354] atrazine to industrial soil	0.88 kg 1,4-dichlorobenzene eq."/kg
[E1355] azinphos-ethyl to industrial soil	6.9 kg 1,4-dichlorobenzene eq."/kg
[E1356] azinphos-methyl to industrial soil	0.099 kg 1,4-dichlorobenzene eq."/kg
[E1357] barium to industrial soil	320 kg 1,4-dichlorobenzene eq."/kg
[E1358] benomyl to industrial soil	0.0011 kg 1,4-dichlorobenzene eq."/kg
[E1359] bentazone to industrial soil	0.16 kg 1,4-dichlorobenzene eq."/kg
[E1360] benzene to industrial soil	1600 kg 1,4-dichlorobenzene eq."/kg
[E1365] benzylchloride to industrial soil	490 kg 1,4-dichlorobenzene eq."/kg
[E1366] beryllium to industrial soil	7000 kg 1,4-dichlorobenzene eq."/kg
[E1367] bifenthrin to industrial soil	0.3 kg 1,4-dichlorobenzene eq."/kg
[E1368] Butylbenzylphtalate to industrial soil	0.0018 kg 1,4-dichlorobenzene eq."/kg
[E1369] cadmium to industrial soil	67 kg 1,4-dichlorobenzene eq."/kg
[E1370] captafol to industrial soil	79 kg 1,4-dichlorobenzene eq."/kg
[E1371] captan to industrial soil	0.00011 kg 1,4-dichlorobenzene eq."/kg
[E1372] carbaryl to industrial soil	0.15 kg 1,4-dichlorobenzene eq."/kg
[E1373] carbendazim to industrial soil	0.43 kg 1,4-dichlorobenzene eq."/kg
[E1374] carbofuran to industrial soil	8 kg 1,4-dichlorobenzene eq."/kg
[E1375] carbon disulfide to industrial soil	2.2 kg 1,4-dichlorobenzene eq."/kg
[E1376] Carcinogenic PAHs to industrial soil	2700 kg 1,4-dichlorobenzene eq."/kg
[E1377] chlordane to industrial soil	27 kg 1,4-dichlorobenzene eq."/kg
[E1378] chlorfenvinphos to industrial soil	44 kg 1,4-dichlorobenzene eq."/kg
[E1379] chloridazon to industrial soil	0.02 kg 1,4-dichlorobenzene eq."/kg
[E1380] chlorobenzene to industrial soil	6.8 kg 1,4-dichlorobenzene eq."/kg

[E1381] chlorothalonil to industrial soil	1 kg 1,4-dichlorobenzene eq."/kg
[E1382] chlorpropham to industrial soil	0.081 kg 1,4-dichlorobenzene eq."/kg
[E1383] chlorpyriphos to industrial soil	0.14 kg 1,4-dichlorobenzene eq."/kg
[E1384] chromium III to industrial soil	300 kg 1,4-dichlorobenzene eq."/kg
[E1385] chromium VI to industrial soil	500 kg 1,4-dichlorobenzene eq."/kg
[E1387] cobalt to industrial soil	59 kg 1,4-dichlorobenzene eq."/kg
[E1388] copper to industrial soil	1.3 kg 1,4-dichlorobenzene eq."/kg
[E1389] coumaphos to industrial soil	1600 kg 1,4-dichlorobenzene eq."/kg
[E1390] cyanazine to industrial soil	0.35 kg 1,4-dichlorobenzene eq."/kg
[E1391] cypermethrin to industrial soil	1.8 kg 1,4-dichlorobenzene eq."/kg
[E1392] cyromazine to industrial soil	1.3 kg 1,4-dichlorobenzene eq."/kg
[E1393] DDT to industrial soil	1.8 kg 1,4-dichlorobenzene eq."/kg
[E1394] deltamethrin to industrial soil	0.03 kg 1,4-dichlorobenzene eq."/kg
[E1395] demeton to industrial soil	89 kg 1,4-dichlorobenzene eq."/kg
[E1396] desmetryn to industrial soil	2.9 kg 1,4-dichlorobenzene eq."/kg
[E1397] Di(2-ethylhexyl)phtalate to industrial soil	0.0052 kg 1,4-dichlorobenzene eq."/kg
[E1398] diazinon to industrial soil	3.2 kg 1,4-dichlorobenzene eq."/kg
[E1399] Dibutylphtalate to industrial soil	0.013 kg 1,4-dichlorobenzene eq."/kg
[E1400] Dichloromethane (Methylene Chloride) to industrial soil	1.3 kg 1,4-dichlorobenzene eq."/kg
[E1401] dichlorprop to industrial soil	0.26 kg 1,4-dichlorobenzene eq."/kg
[E1402] dichlorvos to industrial soil	0.036 kg 1,4-dichlorobenzene eq."/kg
[E1403] dieldrin to industrial soil	1500 kg 1,4-dichlorobenzene eq."/kg
[E1404] Diethylphtalate to industrial soil	0.0033 kg 1,4-dichlorobenzene eq."/kg
[E1405] Dihexylphtalate to industrial soil	14 kg 1,4-dichlorobenzene eq."/kg
[E1406] Diisodecylphtalate to industrial soil	0.038 kg 1,4-dichlorobenzene eq."/kg
[E1407] Diisooctylphtalate to industrial soil	0.052 kg 1,4-dichlorobenzene eq."/kg
[E1408] dimethoate to industrial soil	3 kg 1,4-dichlorobenzene eq."/kg
[E1409] Dimethylphtalate to industrial soil	0.27 kg 1,4-dichlorobenzene eq."/kg
[E1410] dinoseb to industrial soil	97 kg 1,4-dichlorobenzene eq."/kg
[E1411] dinoterb to industrial soil	0.12 kg 1,4-dichlorobenzene eq."/kg
[E1412] Dioctylphtalate to industrial soil	0.0088 kg 1,4-dichlorobenzene eq."/kg
[E1413] disulfothon to industrial soil	2 kg 1,4-dichlorobenzene eq."/kg
[E1414] diuron to industrial soil	2 kg 1,4-dichlorobenzene eq."/kg
[E1415] DNOC to industrial soil	2.8 kg 1,4-dichlorobenzene eq."/kg
[E1416] endosulfan to industrial soil	0.016 kg 1,4-dichlorobenzene eq."/kg
[E1417] endrin to industrial soil	750 kg 1,4-dichlorobenzene eq."/kg
[E1418] ethoprophos to industrial soil	380 kg 1,4-dichlorobenzene eq."/kg
[E1419] ethylbenzene to industrial soil	0.5 kg 1,4-dichlorobenzene eq."/kg
[E1420] ethylene to industrial soil	0.62 kg 1,4-dichlorobenzene eq."/kg
[E1421] fenitrothion to industrial soil	0.32 kg 1,4-dichlorobenzene eq."/kg
[E1422] fenthion to industrial soil	1.5 kg 1,4-dichlorobenzene eq."/kg
[E1423] fentin acetate to industrial soil	9.2 kg 1,4-dichlorobenzene eq."/kg
[E1424] fentin chloride to industrial soil	13 kg 1,4-dichlorobenzene eq."/kg
[E1425] fentin hydroxide to industrial soil	8.5 kg 1,4-dichlorobenzene eq."/kg
[E1427] folpet to industrial soil	1.5 kg 1,4-dichlorobenzene eq."/kg
[E1428] Formaldehyde (methanal) to industrial soil	0.019 kg 1,4-dichlorobenzene eq."/kg
[E1429] glyphosate to industrial soil	0.00065 kg 1,4-dichlorobenzene eq."/kg
[E1430] heptachlor to industrial soil	4.4 kg 1,4-dichlorobenzene eq."/kg
[E1431] heptenophos to industrial soil	0.02 kg 1,4-dichlorobenzene eq."/kg
[E1432] hexachloro-1,3-butadiene to industrial soil	35000 kg 1,4-dichlorobenzene eq."/kg
[E1433] hexachlorobenzene to industrial soil	1.30E+06 kg 1,4-dichlorobenzene eq."/kg
[E1437] iprodione to industrial soil	0.0032 kg 1,4-dichlorobenzene eq."/kg
[E1438] isoproturon to industrial soil	2.8 kg 1,4-dichlorobenzene eq."/kg
[E1439] lead to industrial soil	290 kg 1,4-dichlorobenzene eq."/kg
[E1440] lindane to industrial soil	52 kg 1,4-dichlorobenzene eq."/kg
[E1441] linuron to industrial soil	9.4 kg 1,4-dichlorobenzene eq."/kg
[E1442] malathion to industrial soil	0.00095 kg 1,4-dichlorobenzene eq."/kg
[E1443] MCPA to industrial soil	0.97 kg 1,4-dichlorobenzene eq."/kg
[E1444] mecoprop to industrial soil	42 kg 1,4-dichlorobenzene eq."/kg
[E1445] mercury to industrial soil	1100 kg 1,4-dichlorobenzene eq."/kg
[E1446] metamitron to industrial soil	0.012 kg 1,4-dichlorobenzene eq."/kg
[E1447] metazachlor to industrial soil	0.16 kg 1,4-dichlorobenzene eq."/kg
[E1448] methabenzthiazuron to industrial soil	0.36 kg 1,4-dichlorobenzene eq."/kg
[E1449] methomyl to industrial soil	0.69 kg 1,4-dichlorobenzene eq."/kg
[E1450] methylbromide to industrial soil	260 kg 1,4-dichlorobenzene eq."/kg
[E1451] methyl-mercury to industrial soil	11000 kg 1,4-dichlorobenzene eq."/kg
[E1452] metobromuron to industrial soil	1.9 kg 1,4-dichlorobenzene eq."/kg

[E1453] metolachlor to industrial soil	0.11 kg 1,4-dichlorobenzene eq."/kg
[E1454] mevinphos to industrial soil	0.055 kg 1,4-dichlorobenzene eq."/kg
[E1455] molybdenum to industrial soil	3100 kg 1,4-dichlorobenzene eq."/kg
[E1456] m-xylene to industrial soil	0.019 kg 1,4-dichlorobenzene eq."/kg
[E1457] naphtalene to industrial soil	1.6 kg 1,4-dichlorobenzene eq."/kg
[E1458] nickel to industrial soil	200 kg 1,4-dichlorobenzene eq."/kg
[E1460] oxamyl to industrial soil	0.068 kg 1,4-dichlorobenzene eq."/kg
[E1461] oxydemethon-methyl to industrial soil	3.8 kg 1,4-dichlorobenzene eq."/kg
[E1462] o-xylene to industrial soil	0.076 kg 1,4-dichlorobenzene eq."/kg
[E1463] parathion-ethyl to industrial soil	0.11 kg 1,4-dichlorobenzene eq."/kg
[E1464] parathion-methyl to industrial soil	1.7 kg 1,4-dichlorobenzene eq."/kg
[E1465] pentachlorobenzene to industrial soil	140 kg 1,4-dichlorobenzene eq."/kg
[E1466] pentachloronitrobenzene to industrial soil	4.3 kg 1,4-dichlorobenzene eq."/kg
[E1467] pentachlorophenol to industrial soil	0.039 kg 1,4-dichlorobenzene eq."/kg
[E1468] permethrin to industrial soil	0.021 kg 1,4-dichlorobenzene eq."/kg
[E1470] phenol to industrial soil	0.006 kg 1,4-dichlorobenzene eq."/kg
[E1471] phoxim to industrial soil	0.38 kg 1,4-dichlorobenzene eq."/kg
[E1472] Phtalic anhydride to industrial soil	6.60E-07 kg 1,4-dichlorobenzene eq."/kg
[E1473] pirimicarb to industrial soil	0.29 kg 1,4-dichlorobenzene eq."/kg
[E1475] propachlor to industrial soil	0.14 kg 1,4-dichlorobenzene eq."/kg
[E1476] propoxur to industrial soil	0.27 kg 1,4-dichlorobenzene eq."/kg
[E1477] propylene oxide to industrial soil	590 kg 1,4-dichlorobenzene eq."/kg
[E1478] p-xylene to industrial soil	0.025 kg 1,4-dichlorobenzene eq."/kg
[E1479] pyrazophos to industrial soil	1.2 kg 1,4-dichlorobenzene eq."/kg
[E1480] selenium to industrial soil	28000 kg 1,4-dichlorobenzene eq."/kg
[E1481] simazine to industrial soil	2.2 kg 1,4-dichlorobenzene eq."/kg
[E1482] styrene (vinylbenzene) to industrial soil	0.018 kg 1,4-dichlorobenzene eq."/kg
[E1484] tetrachloroethylene (PER) to industrial soil	5.2 kg 1,4-dichlorobenzene eq."/kg
[E1485] Tetrachloromethane (carbon tetrachloride) (HC-10) to industrial soil	220 kg 1,4-dichlorobenzene eq."/kg
[E1486] thallium to industrial soil	1.20E+05 kg 1,4-dichlorobenzene eq."/kg
[E1487] Thiram to industrial soil	0.25 kg 1,4-dichlorobenzene eq."/kg
[E1488] tin to industrial soil	0.52 kg 1,4-dichlorobenzene eq."/kg
[E1489] tolclophos-methyl to industrial soil	0.04 kg 1,4-dichlorobenzene eq."/kg
[E1490] toluene to industrial soil	0.21 kg 1,4-dichlorobenzene eq."/kg
[E1491] tri-allate to industrial soil	0.36 kg 1,4-dichlorobenzene eq."/kg
[E1492] triazophos to industrial soil	37 kg 1,4-dichlorobenzene eq."/kg
[E1493] tributyltinoxide to industrial soil	43 kg 1,4-dichlorobenzene eq."/kg
[E1494] trichlorfon to industrial soil	0.02 kg 1,4-dichlorobenzene eq."/kg
[E1495] Trichloroethylene (tri) to industrial soil	32 kg 1,4-dichlorobenzene eq."/kg
[E1496] Trichloromethane=chloroform to industrial soil	10 kg 1,4-dichlorobenzene eq."/kg
[E1497] trifluarin to industrial soil	0.68 kg 1,4-dichlorobenzene eq."/kg
[E1498] vanadium to industrial soil	1700 kg 1,4-dichlorobenzene eq."/kg
[E1499] Vinyl Chloride (chloroethene) to industrial soil	83 kg 1,4-dichlorobenzene eq."/kg
[E1500] zinc to industrial soil	0.42 kg 1,4-dichlorobenzene eq."/kg
[E1501] zineb to industrial soil	0.1 kg 1,4-dichlorobenzene eq."/kg

Category = [C6] Aquatic ecotoxicity fresh water
Description = Problem oriented approach, manual 1999; AETP
Author = Huijbregts, 1999
Date = 10/11/99

Environmental resources

Environmental resource	Value	Unit

Environmental emissions

Environmental emission	Value	Unit
[E90] 1,1,1-trichloroethane (methyl chloroform; HC-140a) to air	0.00012	kg 1,4-dichlorobenzene eq."/kg
[E94] 1,2,3,4-tetrachlorobenzene to air	0.1	kg 1,4-dichlorobenzene eq."/kg
[E95] 1,2,3,5-tetrachlorobenzene to air	0.073	kg 1,4-dichlorobenzene eq."/kg
[E96] 1,2,3-trichlorobenzene to air	0.0085	kg 1,4-dichlorobenzene eq."/kg
[E98] 1,2,4,5-tetrachlorobenzene to air	0.073	kg 1,4-dichlorobenzene eq."/kg
[E99] 1,2,4-trichlorobenzene to air	0.0099	kg 1,4-dichlorobenzene eq."/kg
[E102] 1,2-dichlorobenzene to air	0.0029	kg 1,4-dichlorobenzene eq."/kg
[E103] 1,2-dichloroethane to air	0.00012	kg 1,4-dichlorobenzene eq."/kg
[E107] 1,3,5-trichlorobenzene to air	0.016	kg 1,4-dichlorobenzene eq."/kg
[E111] 1,3-Butadiene to air	3.30E-07	kg 1,4-dichlorobenzene eq."/kg

[E112] 1,3-dichlorobenzene to air	0.0024 kg 1,4-dichlorobenzene eq."/kg
[E116] 1,4-dichlorobenzene to air	0.0024 kg 1,4-dichlorobenzene eq."/kg
[E128] 1-chloro-4-nitrobenzene to air	11 kg 1,4-dichlorobenzene eq."/kg
[E166] 2,3,4,6-tetrachlorophenol to air	80 kg 1,4-dichlorobenzene eq."/kg
[E168] 2,3,7,8-TCDD (tetrachloride-dibenzo-dioxin) to air	2.10E+06 kg 1,4-dichlorobenzene eq."/kg
[E172] 2,4,5-T to air	0.85 kg 1,4-dichlorobenzene eq."/kg
[E173] 2,4,5-trichlorophenol to air	15 kg 1,4-dichlorobenzene eq."/kg
[E174] 2,4,6-trichlorophenol to air	5.9 kg 1,4-dichlorobenzene eq."/kg
[E175] 2,4-D to air	39 kg 1,4-dichlorobenzene eq."/kg
[E176] 2,4-dichlorophenol to air	1.4 kg 1,4-dichlorobenzene eq."/kg
[E185] 2-chlorophenol to air	13 kg 1,4-dichlorobenzene eq."/kg
[E208] 3,4-dichloroaniline to air	1700 kg 1,4-dichlorobenzene eq."/kg
[E217] 3-chloroaniline to air	100 kg 1,4-dichlorobenzene eq."/kg
[E228] 4-chloroaniline to air	2 kg 1,4-dichlorobenzene eq."/kg
[E231] acephate to air	79 kg 1,4-dichlorobenzene eq."/kg
[E236] Acrolein (2-propenal) to air	520 kg 1,4-dichlorobenzene eq."/kg
[E237] Acrylonitrile to air	0.41 kg 1,4-dichlorobenzene eq."/kg
[E241] aldicarb to air	51000 kg 1,4-dichlorobenzene eq."/kg
[E242] aldrin to air	2.7 kg 1,4-dichlorobenzene eq."/kg
[E251] anilazine to air	14 kg 1,4-dichlorobenzene eq."/kg
[E252] anthracene to air	140 kg 1,4-dichlorobenzene eq."/kg
[E253] antimony to air	3.7 kg 1,4-dichlorobenzene eq."/kg
[E255] arsenic to air	50 kg 1,4-dichlorobenzene eq."/kg
[E256] atrazine to air	360 kg 1,4-dichlorobenzene eq."/kg
[E257] azinphos-ethyl to air	290 kg 1,4-dichlorobenzene eq."/kg
[E258] azinphos-methyl to air	420 kg 1,4-dichlorobenzene eq."/kg
[E259] barium to air	43 kg 1,4-dichlorobenzene eq."/kg
[E260] benomyl to air	30 kg 1,4-dichlorobenzene eq."/kg
[E261] bentazone to air	5.6 kg 1,4-dichlorobenzene eq."/kg
[E263] Benzene to air	8.40E-05 kg 1,4-dichlorobenzene eq."/kg
[E264] benzo[a]anthracene to air	42 kg 1,4-dichlorobenzene eq."/kg
[E265] benzo[a]pyrene to air	88 kg 1,4-dichlorobenzene eq."/kg
[E266] benzo[ghi]perylene to air	44 kg 1,4-dichlorobenzene eq."/kg
[E267] benzo[k]fluoranthrene to air	3900 kg 1,4-dichlorobenzene eq."/kg
[E269] benzylchloride to air	0.76 kg 1,4-dichlorobenzene eq."/kg
[E270] beryllium to air	17000 kg 1,4-dichlorobenzene eq."/kg
[E272] bifenthrin to air	820 kg 1,4-dichlorobenzene eq."/kg
[E290] Butylbenzylphtalate to air	0.4 kg 1,4-dichlorobenzene eq."/kg
[E385] cadmium to air	290 kg 1,4-dichlorobenzene eq."/kg
[E387] captafol to air	20000 kg 1,4-dichlorobenzene eq."/kg
[E388] captan to air	16 kg 1,4-dichlorobenzene eq."/kg
[E389] carbaryl to air	110 kg 1,4-dichlorobenzene eq."/kg
[E390] carbendazim to air	3000 kg 1,4-dichlorobenzene eq."/kg
[E391] carbofuran to air	900 kg 1,4-dichlorobenzene eq."/kg
[E394] carbon disulfide to air	0.033 kg 1,4-dichlorobenzene eq."/kg
[E404] chlordane to air	270 kg 1,4-dichlorobenzene eq."/kg
[E405] chlorfenvinphos to air	32 kg 1,4-dichlorobenzene eq."/kg
[E406] chloridazon to air	0.026 kg 1,4-dichlorobenzene eq."/kg
[E407] chlorobenzene to air	0.00047 kg 1,4-dichlorobenzene eq."/kg
[E410] chlorothalonil to air	2.5 kg 1,4-dichlorobenzene eq."/kg
[E411] chlorpropham to air	2.3 kg 1,4-dichlorobenzene eq."/kg
[E412] chlorpyriphos to air	520 kg 1,4-dichlorobenzene eq."/kg
[E413] chromium (unspecified) to air	1.9 kg 1,4-dichlorobenzene eq."/kg
[E414] chromium III to air	1.9 kg 1,4-dichlorobenzene eq."/kg
[E415] chromium VI to air	7.7 kg 1,4-dichlorobenzene eq."/kg
[E416] chrysene to air	39 kg 1,4-dichlorobenzene eq."/kg
[E421] cobalt to air	640 kg 1,4-dichlorobenzene eq."/kg
[E422] copper to air	220 kg 1,4-dichlorobenzene eq."/kg
[E423] coumaphos to air	2.40E+05 kg 1,4-dichlorobenzene eq."/kg
[E425] cyanazine to air	1900 kg 1,4-dichlorobenzene eq."/kg
[E437] cypermethrin to air	84000 kg 1,4-dichlorobenzene eq."/kg
[E438] cyromazine to air	3500 kg 1,4-dichlorobenzene eq."/kg
[E439] DDT to air	320 kg 1,4-dichlorobenzene eq."/kg
[E441] deltamethrin to air	1800 kg 1,4-dichlorobenzene eq."/kg
[E442] demeton to air	23 kg 1,4-dichlorobenzene eq."/kg
[E443] desmetryn to air	6.8 kg 1,4-dichlorobenzene eq."/kg
[E444] Di(2-ethylhexyl)phtalate to air	0.35 kg 1,4-dichlorobenzene eq."/kg

[E446] diazinon to air	230 kg 1,4-dichlorobenzene eq."/kg
[E448] Dibutylphtalate to air	0.56 kg 1,4-dichlorobenzene eq."/kg
[E449] Dichloromethane (Methylene Chloride) to air	3.30E-05 kg 1,4-dichlorobenzene eq."/kg
[E450] dichlorprop to air	0.099 kg 1,4-dichlorobenzene eq."/kg
[E451] dichlorvos to air	510 kg 1,4-dichlorobenzene eq."/kg
[E452] dieldrin to air	200 kg 1,4-dichlorobenzene eq."/kg
[E456] Diethylphtalate to air	0.42 kg 1,4-dichlorobenzene eq."/kg
[E457] Dihexylphtalate to air	0.5 kg 1,4-dichlorobenzene eq."/kg
[E458] Diisodecylphtalate to air	0.56 kg 1,4-dichlorobenzene eq."/kg
[E459] Diisooctylphtalate to air	0.12 kg 1,4-dichlorobenzene eq."/kg
[E461] dimethoate to air	13 kg 1,4-dichlorobenzene eq."/kg
[E468] Dimethylphtalate to air	0.052 kg 1,4-dichlorobenzene eq."/kg
[E470] dinoseb to air	10000 kg 1,4-dichlorobenzene eq."/kg
[E471] dinoterb to air	2900 kg 1,4-dichlorobenzene eq."/kg
[E472] Dioctylphtalate to air	0.016 kg 1,4-dichlorobenzene eq."/kg
[E475] disulfothon to air	27 kg 1,4-dichlorobenzene eq."/kg
[E476] diuron to air	27 kg 1,4-dichlorobenzene eq."/kg
[E478] DNOC to air	3.4 kg 1,4-dichlorobenzene eq."/kg
[E480] endosulfan to air	45 kg 1,4-dichlorobenzene eq."/kg
[E481] endrin to air	1100 kg 1,4-dichlorobenzene eq."/kg
[E487] ethoprophos to air	2400 kg 1,4-dichlorobenzene eq."/kg
[E496] Ethylbenzene to air	0.00013 kg 1,4-dichlorobenzene eq."/kg
[E499] Ethylene (ethene) to air	1.40E-11 kg 1,4-dichlorobenzene eq."/kg
[E504] fenitrothion to air	2500 kg 1,4-dichlorobenzene eq."/kg
[E505] fenthion to air	2500 kg 1,4-dichlorobenzene eq."/kg
[E506] fentin acetate to air	4300 kg 1,4-dichlorobenzene eq."/kg
[E507] fentin chloride to air	1800 kg 1,4-dichlorobenzene eq."/kg
[E508] fentin hydroxide to air	4200 kg 1,4-dichlorobenzene eq."/kg
[E509] fluoranthrene to air	18 kg 1,4-dichlorobenzene eq."/kg
[E510] folpet to air	410 kg 1,4-dichlorobenzene eq."/kg
[E511] Formaldehyde (methanal) to air	8.3 kg 1,4-dichlorobenzene eq."/kg
[E516] glyphosate to air	22 kg 1,4-dichlorobenzene eq."/kg
[E533] heptachlor to air	1.4 kg 1,4-dichlorobenzene eq."/kg
[E535] heptenophos to air	120 kg 1,4-dichlorobenzene eq."/kg
[E536] hexachloro-1,3-butadiene to air	46 kg 1,4-dichlorobenzene eq."/kg
[E537] hexachlorobenzene to air	1.3 kg 1,4-dichlorobenzene eq."/kg
[E566] indeno[1,2,3-cd]pyrene to air	170 kg 1,4-dichlorobenzene eq."/kg
[E568] iprodione to air	2.8 kg 1,4-dichlorobenzene eq."/kg
[E583] isoproturon to air	190 kg 1,4-dichlorobenzene eq."/kg
[E584] lead to air	2.4 kg 1,4-dichlorobenzene eq."/kg
[E585] lindane to air	52 kg 1,4-dichlorobenzene eq."/kg
[E586] linuron to air	40 kg 1,4-dichlorobenzene eq."/kg
[E587] malathion to air	1800 kg 1,4-dichlorobenzene eq."/kg
[E589] MCPA to air	1.1 kg 1,4-dichlorobenzene eq."/kg
[E590] mecoprop to air	37 kg 1,4-dichlorobenzene eq."/kg
[E592] mercury to air	320 kg 1,4-dichlorobenzene eq."/kg
[E595] metamitron to air	0.93 kg 1,4-dichlorobenzene eq."/kg
[E596] meta-Xylene (1,3-dimethylbenzene) to air	4.40E-05 kg 1,4-dichlorobenzene eq."/kg
[E597] metazachlor to air	7.4 kg 1,4-dichlorobenzene eq."/kg
[E598] methabenzthiazuron to air	70 kg 1,4-dichlorobenzene eq."/kg
[E603] methomyl to air	14000 kg 1,4-dichlorobenzene eq."/kg
[E626] methyl-mercury to air	7300 kg 1,4-dichlorobenzene eq."/kg
[E628] metobromuron to air	49 kg 1,4-dichlorobenzene eq."/kg
[E629] metolachlor to air	1500 kg 1,4-dichlorobenzene eq."/kg
[E630] mevinphos to air	9300 kg 1,4-dichlorobenzene eq."/kg
[E632] molybdenum to air	97 kg 1,4-dichlorobenzene eq."/kg
[E633] Naphtalene to air	0.5 kg 1,4-dichlorobenzene eq."/kg
[E635] nickel to air	630 kg 1,4-dichlorobenzene eq."/kg
[E650] ortho-Xylene (1,2-dimethylbenzene) to air	9.30E-05 kg 1,4-dichlorobenzene eq."/kg
[E651] oxamyl to air	56 kg 1,4-dichlorobenzene eq."/kg
[E652] oxydemethon-methyl to air	2400 kg 1,4-dichlorobenzene eq."/kg
[E655] parathion-ethyl to air	2800 kg 1,4-dichlorobenzene eq."/kg
[E656] parathion-methyl to air	990 kg 1,4-dichlorobenzene eq."/kg
[E658] para-Xylene (1,4-dimethylbenzene) to air	6.10E-05 kg 1,4-dichlorobenzene eq."/kg
[E660] pentachlorobenzene to air	0.37 kg 1,4-dichlorobenzene eq."/kg
[E661] pentachloronitrobenzene to air	47 kg 1,4-dichlorobenzene eq."/kg
[E662] pentachlorophenol to air	11 kg 1,4-dichlorobenzene eq."/kg

[E672] permethrin to air	16000 kg 1,4-dichlorobenzene eq."/kg
[E674] phenanthrene to air	1.3 kg 1,4-dichlorobenzene eq."/kg
[E675] Phenol to air	1.5 kg 1,4-dichlorobenzene eq."/kg
[E679] phoxim to air	0.44 kg 1,4-dichlorobenzene eq."/kg
[E680] Phtalic anhydride to air	0.0082 kg 1,4-dichlorobenzene eq."/kg
[E682] pirimicarb to air	2400 kg 1,4-dichlorobenzene eq."/kg
[E685] Polycyclic Aromatic Hydrocarbons Carcinogenic- (carcinogenic-PAH) to air	170 kg 1,4-dichlorobenzene eq."/kg
[E686] propachlor to air	20 kg 1,4-dichlorobenzene eq."/kg
[E690] propoxur to air	25000 kg 1,4-dichlorobenzene eq."/kg
[E697] Propylene Oxide to air	0.037 kg 1,4-dichlorobenzene eq."/kg
[E698] pyrazophos to air	180 kg 1,4-dichlorobenzene eq."/kg
[E704] selenium to air	550 kg 1,4-dichlorobenzene eq."/kg
[E705] simazine to air	2100 kg 1,4-dichlorobenzene eq."/kg
[E706] styrene (vinylbenzene) to air	5.10E-05 kg 1,4-dichlorobenzene eq."/kg
[E718] tetrachloroethylene (PER) (tetrachloroethene) to air	0.00041 kg 1,4-dichlorobenzene eq."/kg
[E719] Tetrachloromethane (carbon tetrachloride) (HC-10) to air	0.00025 kg 1,4-dichlorobenzene eq."/kg
[E722] thallium to air	1600 kg 1,4-dichlorobenzene eq."/kg
[E723] Thiram to air	2700 kg 1,4-dichlorobenzene eq."/kg
[E724] tin to air	2.5 kg 1,4-dichlorobenzene eq."/kg
[E725] tolclophos-methyl to air	0.15 kg 1,4-dichlorobenzene eq."/kg
[E727] Toluene to air	7.00E-05 kg 1,4-dichlorobenzene eq."/kg
[E733] tri-allate to air	61 kg 1,4-dichlorobenzene eq."/kg
[E734] triazophos to air	3300 kg 1,4-dichlorobenzene eq."/kg
[E735] tributyltinoxide to air	7700 kg 1,4-dichlorobenzene eq."/kg
[E736] trichlorfon to air	13000 kg 1,4-dichlorobenzene eq."/kg
[E737] Trichloroethylene (tri) to air	3.80E-05 kg 1,4-dichlorobenzene eq."/kg
[E738] Trichloromethane (chloroform) to air	9.50E-05 kg 1,4-dichlorobenzene eq."/kg
[E739] trifluarin to air	9.9 kg 1,4-dichlorobenzene eq."/kg
[E743] vanadium to air	1700 kg 1,4-dichlorobenzene eq."/kg
[E745] Vinyl Chloride (chloroethene) to air	2.90E-06 kg 1,4-dichlorobenzene eq."/kg
[E748] zinc to air	18 kg 1,4-dichlorobenzene eq."/kg
[E749] zineb to air	940 kg 1,4-dichlorobenzene eq."/kg
[E750] 1,1,1-trichloroethane to air	0.11 kg 1,4-dichlorobenzene eq."/kg
[E751] 1,2,3,4-tetrachlorobenzene to air	16 kg 1,4-dichlorobenzene eq."/kg
[E752] 1,2,3,5-tetrachlorobenzene to air	14 kg 1,4-dichlorobenzene eq."/kg
[E753] 1,2,3-trichlorobenzene to air	4 kg 1,4-dichlorobenzene eq."/kg
[E754] 1,2,4,5-tetrachlorobenzene to air	13 kg 1,4-dichlorobenzene eq."/kg
[E755] 1,2,4-trichlorobenzene to air	3.5 kg 1,4-dichlorobenzene eq."/kg
[E756] 1,2-dichlorobenzene to air	1 kg 1,4-dichlorobenzene eq."/kg
[E757] 1,2-dichloroethane to air	0.023 kg 1,4-dichlorobenzene eq."/kg
[E758] 1,3,5-trichlorobenzene to air	5 kg 1,4-dichlorobenzene eq."/kg
[E759] 1,3-butadiene to air	3 kg 1,4-dichlorobenzene eq."/kg
[E760] 1,3-dichlorobenzene to air	1.2 kg 1,4-dichlorobenzene eq."/kg
[E761] 1,4-dichlorobenzene to air	1 kg 1,4-dichlorobenzene eq."/kg
[E762] 1-chloro-4-nitrobenzene to air	860 kg 1,4-dichlorobenzene eq."/kg
[E763] 2,3,4,6-tetrachlorophenol to air	5200 kg 1,4-dichlorobenzene eq."/kg
[E764] 2,3,7,8-TCDD to air	1.70E+08 kg 1,4-dichlorobenzene eq."/kg
[E765] 2,4,5-T to air	17 kg 1,4-dichlorobenzene eq."/kg
[E766] 2,4,5-trichlorophenol to air	1600 kg 1,4-dichlorobenzene eq."/kg
[E767] 2,4,6-trichlorophenol to fresh water	290 kg 1,4-dichlorobenzene eq."/kg
[E768] 2,4-D to fresh water	400 kg 1,4-dichlorobenzene eq."/kg
[E769] 2,4-dichlorophenol to fresh water	170 kg 1,4-dichlorobenzene eq."/kg
[E770] 2-chlorophenol to fresh water	1600 kg 1,4-dichlorobenzene eq."/kg
[E771] 3,4-dichloroaniline to fresh water	19000 kg 1,4-dichlorobenzene eq."/kg
[E772] 3-chloroaniline to fresh water	2500 kg 1,4-dichlorobenzene eq."/kg
[E773] 4-chloroaniline to fresh water	3100 kg 1,4-dichlorobenzene eq."/kg
[E774] acephate to fresh water	1100 kg 1,4-dichlorobenzene eq."/kg
[E775] Acrolein (2-propenal) to fresh water	2.50E+05 kg 1,4-dichlorobenzene eq."/kg
[E776] acrylonitrile to fresh water	79 kg 1,4-dichlorobenzene eq."/kg
[E777] aldicarb to fresh water	4.40E+05 kg 1,4-dichlorobenzene eq."/kg
[E778] aldrin to fresh water	12000 kg 1,4-dichlorobenzene eq."/kg
[E780] anilazine to fresh water	1100 kg 1,4-dichlorobenzene eq."/kg
[E781] anthracene to fresh water	57000 kg 1,4-dichlorobenzene eq."/kg
[E782] antimony to fresh water	20 kg 1,4-dichlorobenzene eq."/kg
[E783] arsenic to fresh water	210 kg 1,4-dichlorobenzene eq."/kg
[E784] atrazine to fresh water	5000 kg 1,4-dichlorobenzene eq."/kg
[E785] azinphos-ethyl to fresh water	2.70E+05 kg 1,4-dichlorobenzene eq."/kg

[E786] azinphos-methyl to fresh water	52000 kg 1,4-dichlorobenzene eq."/kg
[E787] barium to fresh water	230 kg 1,4-dichlorobenzene eq."/kg
[E788] benomyl to fresh water	6800 kg 1,4-dichlorobenzene eq."/kg
[E789] bentazone to fresh water	51 kg 1,4-dichlorobenzene eq."/kg
[E790] benzene to fresh water	0.091 kg 1,4-dichlorobenzene eq."/kg
[E791] benzo[a]anthracene to fresh water	1.10E+05 kg 1,4-dichlorobenzene eq."/kg
[E792] benzo[a]pyrene to fresh water	2.50E+05 kg 1,4-dichlorobenzene eq."/kg
[E793] benzo[ghi]perylene to fresh water	52000 kg 1,4-dichlorobenzene eq."/kg
[E794] benzo[k]fluoranthrene to fresh water	1.20E+06 kg 1,4-dichlorobenzene eq."/kg
[E795] benzylchloride to fresh water	200 kg 1,4-dichlorobenzene eq."/kg
[E796] beryllium to fresh water	91000 kg 1,4-dichlorobenzene eq."/kg
[E797] bifenthrin to fresh water	2.40E+05 kg 1,4-dichlorobenzene eq."/kg
[E800] Butylbenzylphtalate to fresh water	76 kg 1,4-dichlorobenzene eq."/kg
[E801] cadmium to fresh water	1500 kg 1,4-dichlorobenzene eq."/kg
[E802] captafol to fresh water	5.40E+05 kg 1,4-dichlorobenzene eq."/kg
[E803] captan to fresh water	2100 kg 1,4-dichlorobenzene eq."/kg
[E804] carbaryl to fresh water	4500 kg 1,4-dichlorobenzene eq."/kg
[E805] carbendazim to fresh water	38000 kg 1,4-dichlorobenzene eq."/kg
[E806] carbofuran to fresh water	13000 kg 1,4-dichlorobenzene eq."/kg
[E807] carbon disulfide to fresh water	110 kg 1,4-dichlorobenzene eq."/kg
[E808] Carcinogenic PAHs to fresh water	28000 kg 1,4-dichlorobenzene eq."/kg
[E810] chlordane to fresh water	90000 kg 1,4-dichlorobenzene eq."/kg
[E811] chlorfenvinphos to fresh water	1100 kg 1,4-dichlorobenzene eq."/kg
[E812] chloridazon to fresh water	31 kg 1,4-dichlorobenzene eq."/kg
[E814] chlorobenzene to fresh water	0.36 kg 1,4-dichlorobenzene eq."/kg
[E815] chlorothalonil to fresh water	370 kg 1,4-dichlorobenzene eq."/kg
[E816] chlorpropham to fresh water	83 kg 1,4-dichlorobenzene eq."/kg
[E817] chlorpyriphos to fresh water	6.40E+05 kg 1,4-dichlorobenzene eq."/kg
[E818] chromium III to fresh water	6.9 kg 1,4-dichlorobenzene eq."/kg
[E819] chromium VI to fresh water	28 kg 1,4-dichlorobenzene eq."/kg
[E820] chrysene to fresh water	19000 kg 1,4-dichlorobenzene eq."/kg
[E821] cobalt to fresh water	3400 kg 1,4-dichlorobenzene eq."/kg
[E822] copper to fresh water	1200 kg 1,4-dichlorobenzene eq."/kg
[E823] coumaphos to fresh water	2.00E+07 kg 1,4-dichlorobenzene eq."/kg
[E824] cyanazine to fresh water	54000 kg 1,4-dichlorobenzene eq."/kg
[E825] cypermethrin to fresh water	7.90E+06 kg 1,4-dichlorobenzene eq."/kg
[E826] cyromazine to fresh water	26000 kg 1,4-dichlorobenzene eq."/kg
[E827] DDT to fresh water	29000 kg 1,4-dichlorobenzene eq."/kg
[E828] deltamethrin to fresh water	6.50E+05 kg 1,4-dichlorobenzene eq."/kg
[E829] demeton to fresh water	22000 kg 1,4-dichlorobenzene eq."/kg
[E830] desmetryn to fresh water	190 kg 1,4-dichlorobenzene eq."/kg
[E831] Di(2-ethylhexyl)phtalate to fresh water	79 kg 1,4-dichlorobenzene eq."/kg
[E832] diazinon to fresh water	1.10E+05 kg 1,4-dichlorobenzene eq."/kg
[E833] Dibutylphtalate to fresh water	79 kg 1,4-dichlorobenzene eq."/kg
[E834] Dichloromethane (Methylene Chloride) to fresh water	0.012 kg 1,4-dichlorobenzene eq."/kg
[E835] dichlorprop to fresh water	5.3 kg 1,4-dichlorobenzene eq."/kg
[E836] dichlorvos to fresh water	1.20E+05 kg 1,4-dichlorobenzene eq."/kg
[E837] dieldrin to fresh water	79000 kg 1,4-dichlorobenzene eq."/kg
[E838] Diethylphtalate to fresh water	34 kg 1,4-dichlorobenzene eq."/kg
[E839] Dihexylphtalate to fresh water	110 kg 1,4-dichlorobenzene eq."/kg
[E840] Diisodecylphtalate to fresh water	86 kg 1,4-dichlorobenzene eq."/kg
[E841] Diisooctylphtalate to fresh water	21 kg 1,4-dichlorobenzene eq."/kg
[E842] dimethoate to fresh water	170 kg 1,4-dichlorobenzene eq."/kg
[E843] Dimethylphtalate to fresh water	3.1 kg 1,4-dichlorobenzene eq."/kg
[E844] dinoseb to fresh water	3.20E+05 kg 1,4-dichlorobenzene eq."/kg
[E845] dinoterb to fresh water	2.30E+05 kg 1,4-dichlorobenzene eq."/kg
[E846] Dioctylphtalate to fresh water	2.8 kg 1,4-dichlorobenzene eq."/kg
[E847] disulfothon to fresh water	64000 kg 1,4-dichlorobenzene eq."/kg
[E848] diuron to fresh water	64000 kg 1,4-dichlorobenzene eq."/kg
[E849] DNOC to fresh water	110 kg 1,4-dichlorobenzene eq."/kg
[E850] endosulfan to fresh water	28000 kg 1,4-dichlorobenzene eq."/kg
[E851] endrin to fresh water	7.00E+05 kg 1,4-dichlorobenzene eq."/kg
[E852] ethoprophos to fresh water	1.50E+05 kg 1,4-dichlorobenzene eq."/kg
[E853] ethylbenzene to fresh water	0.55 kg 1,4-dichlorobenzene eq."/kg
[E854] ethylene to fresh water	0.022 kg 1,4-dichlorobenzene eq."/kg
[E855] fenitrothion to fresh water	2.40E+05 kg 1,4-dichlorobenzene eq."/kg
[E856] fenthion to fresh water	9.10E+05 kg 1,4-dichlorobenzene eq."/kg

[E857] fentin acetate to fresh water	2.70E+05 kg 1,4-dichlorobenzene eq."/kg
[E858] fentin chloride to fresh water	1.70E+05 kg 1,4-dichlorobenzene eq."/kg
[E859] fentin hydroxide to fresh water	2.70E+05 kg 1,4-dichlorobenzene eq."/kg
[E860] fluoranthrene to fresh water	13000 kg 1,4-dichlorobenzene eq."/kg
[E861] folpet to fresh water	82000 kg 1,4-dichlorobenzene eq."/kg
[E862] Formaldehyde (methanal) to fresh water	280 kg 1,4-dichlorobenzene eq."/kg
[E863] glyphosate to fresh water	1400 kg 1,4-dichlorobenzene eq."/kg
[E864] heptachlor to fresh water	18000 kg 1,4-dichlorobenzene eq."/kg
[E865] heptenophos to fresh water	22000 kg 1,4-dichlorobenzene eq."/kg
[E866] hexachloro-1,3-butadiene to fresh water	45000 kg 1,4-dichlorobenzene eq."/kg
[E867] hexachlorobenzene to fresh water	150 kg 1,4-dichlorobenzene eq."/kg
[E870] indeno[1,2,3-cd]pyrene to fresh water	77000 kg 1,4-dichlorobenzene eq."/kg
[E871] iprodione to fresh water	160 kg 1,4-dichlorobenzene eq."/kg
[E872] isoproturon to fresh water	1900 kg 1,4-dichlorobenzene eq."/kg
[E873] lead to fresh water	9.6 kg 1,4-dichlorobenzene eq."/kg
[E874] lindane to fresh water	6500 kg 1,4-dichlorobenzene eq."/kg
[E875] linuron to fresh water	31000 kg 1,4-dichlorobenzene eq."/kg
[E876] malathion to fresh water	2.10E+05 kg 1,4-dichlorobenzene eq."/kg
[E878] MCPA to fresh water	27 kg 1,4-dichlorobenzene eq."/kg
[E879] mecoprop to fresh water	380 kg 1,4-dichlorobenzene eq."/kg
[E880] mercury to fresh water	1700 kg 1,4-dichlorobenzene eq."/kg
[E881] metamitron to fresh water	23 kg 1,4-dichlorobenzene eq."/kg
[E882] metazachlor to fresh water	150 kg 1,4-dichlorobenzene eq."/kg
[E883] methabenzthiazuron to fresh water	1100 kg 1,4-dichlorobenzene eq."/kg
[E884] methomyl to fresh water	1.40E+05 kg 1,4-dichlorobenzene eq."/kg
[E885] methylbromide to fresh water	19 kg 1,4-dichlorobenzene eq."/kg
[E886] methyl-mercury to fresh water	39000 kg 1,4-dichlorobenzene eq."/kg
[E887] metobromuron to fresh water	430 kg 1,4-dichlorobenzene eq."/kg
[E888] metolachlor to fresh water	38000 kg 1,4-dichlorobenzene eq."/kg
[E889] mevinphos to fresh water	5.90E+05 kg 1,4-dichlorobenzene eq."/kg
[E890] molybdenum to fresh water	480 kg 1,4-dichlorobenzene eq."/kg
[E891] m-xylene to fresh water	0.06 kg 1,4-dichlorobenzene eq."/kg
[E892] naphtalene to fresh water	660 kg 1,4-dichlorobenzene eq."/kg
[E893] nickel to fresh water	3200 kg 1,4-dichlorobenzene eq."/kg
[E899] oxamyl to fresh water	650 kg 1,4-dichlorobenzene eq."/kg
[E900] oxydemethon-methyl to fresh water	70000 kg 1,4-dichlorobenzene eq."/kg
[E901] o-xylene to fresh water	0.56 kg 1,4-dichlorobenzene eq."/kg
[E902] parathion-ethyl to fresh water	1.20E+06 kg 1,4-dichlorobenzene eq."/kg
[E903] parathion-methyl to fresh water	2.90E+05 kg 1,4-dichlorobenzene eq."/kg
[E904] pentachlorobenzene to fresh water	51 kg 1,4-dichlorobenzene eq."/kg
[E905] pentachloronitrobenzene to fresh water	4000 kg 1,4-dichlorobenzene eq."/kg
[E906] pentachlorophenol to fresh water	710 kg 1,4-dichlorobenzene eq."/kg
[E907] permethrin to fresh water	5.00E+06 kg 1,4-dichlorobenzene eq."/kg
[E908] phenanthrene to fresh water	520 kg 1,4-dichlorobenzene eq."/kg
[E909] phenol to fresh water	240 kg 1,4-dichlorobenzene eq."/kg
[E912] phoxim to fresh water	2600 kg 1,4-dichlorobenzene eq."/kg
[E913] Phtalic anhydride to fresh water	0.55 kg 1,4-dichlorobenzene eq."/kg
[E914] pirimicarb to fresh water	36000 kg 1,4-dichlorobenzene eq."/kg
[E916] propachlor to fresh water	1200 kg 1,4-dichlorobenzene eq."/kg
[E917] propoxur to fresh water	2.60E+05 kg 1,4-dichlorobenzene eq."/kg
[E918] propylene oxide to fresh water	4 kg 1,4-dichlorobenzene eq."/kg
[E919] p-xylene to fresh water	0.55 kg 1,4-dichlorobenzene eq."/kg
[E920] pyrazophos to fresh water	49000 kg 1,4-dichlorobenzene eq."/kg
[E921] selenium to fresh water	2900 kg 1,4-dichlorobenzene eq."/kg
[E922] simazine to fresh water	27000 kg 1,4-dichlorobenzene eq."/kg
[E923] styrene (vinylbenzene) to fresh water	0.44 kg 1,4-dichlorobenzene eq."/kg
[E926] tetrachloroethylene (PER) to fresh water	0.7 kg 1,4-dichlorobenzene eq."/kg
[E927] Tetrachloromethane (carbon tetrachloride) (HC-10) to fresh water	0.21 kg 1,4-dichlorobenzene eq."/kg
[E928] thallium to fresh water	8000 kg 1,4-dichlorobenzene eq."/kg
[E929] Thiram to fresh water	98000 kg 1,4-dichlorobenzene eq."/kg
[E930] tin to fresh water	10 kg 1,4-dichlorobenzene eq."/kg
[E931] tolclophos-methyl to fresh water	500 kg 1,4-dichlorobenzene eq."/kg
[E932] toluene to fresh water	0.29 kg 1,4-dichlorobenzene eq."/kg
[E933] tri-allate to fresh water	49000 kg 1,4-dichlorobenzene eq."/kg
[E934] triazophos to fresh water	1.70E+05 kg 1,4-dichlorobenzene eq."/kg
[E935] tributyltinoxide to fresh water	4.50E+05 kg 1,4-dichlorobenzene eq."/kg
[E936] trichlorfon to fresh water	4.10E+05 kg 1,4-dichlorobenzene eq."/kg

[E937] Trichloroethylene (tri) to fresh water	0.097	kg 1,4-dichlorobenzene eq."/kg
[E938] Trichloromethane=chloroform to fresh water	0.042	kg 1,4-dichlorobenzene eq."/kg
[E939] trifluarin to fresh water	27000	kg 1,4-dichlorobenzene eq."/kg
[E940] vanadium to fresh water	9000	kg 1,4-dichlorobenzene eq."/kg
[E941] Vinyl Chloride (chloroethene) to fresh water	0.028	kg 1,4-dichlorobenzene eq."/kg
[E942] zinc to fresh water	92	kg 1,4-dichlorobenzene eq."/kg
[E943] zineb to fresh water	28000	kg 1,4-dichlorobenzene eq."/kg
[E944] 1,1,1-trichloroethane to fresh water	7.20E-05	kg 1,4-dichlorobenzene eq."/kg
[E945] 1,2,3,4-tetrachlorobenzene to fresh water	0.038	kg 1,4-dichlorobenzene eq."/kg
[E946] 1,2,3,5-tetrachlorobenzene to fresh water	0.03	kg 1,4-dichlorobenzene eq."/kg
[E947] 1,2,3-trichlorobenzene to fresh water	0.0039	kg 1,4-dichlorobenzene eq."/kg
[E948] 1,2,4,5-tetrachlorobenzene to fresh water	0.029	kg 1,4-dichlorobenzene eq."/kg
[E949] 1,2,4-trichlorobenzene to fresh water	0.0044	kg 1,4-dichlorobenzene eq."/kg
[E950] 1,2-dichlorobenzene to fresh water	0.0013	kg 1,4-dichlorobenzene eq."/kg
[E951] 1,2-dichloroethane to fresh water	8.80E-05	kg 1,4-dichlorobenzene eq."/kg
[E952] 1,3,5-trichlorobenzene to fresh water	0.007	kg 1,4-dichlorobenzene eq."/kg
[E953] 1,3-butadiene to fresh water	5.60E-08	kg 1,4-dichlorobenzene eq."/kg
[E954] 1,3-dichlorobenzene to fresh water	0.0011	kg 1,4-dichlorobenzene eq."/kg
[E955] 1,4-dichlorobenzene to fresh water	0.0011	kg 1,4-dichlorobenzene eq."/kg
[E956] 1-chloro-4-nitrobenzene to fresh water	1.9	kg 1,4-dichlorobenzene eq."/kg
[E957] 2,3,4,6-tetrachlorophenol to fresh water	0.0013	kg 1,4-dichlorobenzene eq."/kg
[E958] 2,3,7,8-TCDD to fresh water	1.30E+05	kg 1,4-dichlorobenzene eq."/kg
[E959] 2,4,5-T to fresh water	1.70E-10	kg 1,4-dichlorobenzene eq."/kg
[E960] 2,4,5-trichlorophenol to fresh water	0.054	kg 1,4-dichlorobenzene eq."/kg
[E961] 2,4,6-trichlorophenol to sea water	0.00024	kg 1,4-dichlorobenzene eq."/kg
[E962] 2,4-D to sea water	1.10E-10	kg 1,4-dichlorobenzene eq."/kg
[E963] 2,4-dichlorophenol to sea water	0.00029	kg 1,4-dichlorobenzene eq."/kg
[E964] 2-chlorophenol to sea water	0.0067	kg 1,4-dichlorobenzene eq."/kg
[E965] 3,4-dichloroaniline to sea water	0.0012	kg 1,4-dichlorobenzene eq."/kg
[E966] 3-chloroaniline to sea water	3.70E-06	kg 1,4-dichlorobenzene eq."/kg
[E967] 4-chloroaniline to sea water	0.011	kg 1,4-dichlorobenzene eq."/kg
[E968] acephate to sea water	6.00E-08	kg 1,4-dichlorobenzene eq."/kg
[E969] Acrolein (2-propenal) to sea water	5	kg 1,4-dichlorobenzene eq."/kg
[E970] acrylonitrile to sea water	0.006	kg 1,4-dichlorobenzene eq."/kg
[E971] aldicarb to sea water	0.12	kg 1,4-dichlorobenzene eq."/kg
[E972] aldrin to sea water	1.3	kg 1,4-dichlorobenzene eq."/kg
[E974] anilazine to sea water	1.10E-07	kg 1,4-dichlorobenzene eq."/kg
[E975] anthracene to sea water	17	kg 1,4-dichlorobenzene eq."/kg
[E976] antimony to sea water	7.60E-21	kg 1,4-dichlorobenzene eq."/kg
[E977] arsenic to sea water	3.80E-20	kg 1,4-dichlorobenzene eq."/kg
[E978] atrazine to sea water	0.0083	kg 1,4-dichlorobenzene eq."/kg
[E979] azinphos-ethyl to sea water	0.041	kg 1,4-dichlorobenzene eq."/kg
[E980] azinphos-methyl to sea water	0.00011	kg 1,4-dichlorobenzene eq."/kg
[E981] barium to sea water	2.40E-19	kg 1,4-dichlorobenzene eq."/kg
[E982] benomyl to sea water	8.90E-08	kg 1,4-dichlorobenzene eq."/kg
[E983] bentazone to sea water	7.40E-09	kg 1,4-dichlorobenzene eq."/kg
[E984] benzene to sea water	9.20E-06	kg 1,4-dichlorobenzene eq."/kg
[E985] benzo[a]anthracene to sea water	1.1	kg 1,4-dichlorobenzene eq."/kg
[E986] benzo[a]pyrene to sea water	0.28	kg 1,4-dichlorobenzene eq."/kg
[E987] benzo[ghi]perylene to sea water	0.049	kg 1,4-dichlorobenzene eq."/kg
[E988] benzo[k]fluoranthrene to sea water	9.1	kg 1,4-dichlorobenzene eq."/kg
[E989] benzylchloride to sea water	0.011	kg 1,4-dichlorobenzene eq."/kg
[E990] beryllium to sea water	1.60E-16	kg 1,4-dichlorobenzene eq."/kg
[E991] bifenthrin to sea water	0.055	kg 1,4-dichlorobenzene eq."/kg
[E994] Butylbenzylphtalate to sea water	3.20E-05	kg 1,4-dichlorobenzene eq."/kg
[E995] cadmium to sea water	2.50E-20	kg 1,4-dichlorobenzene eq."/kg
[E996] captafol to sea water	5.00E-05	kg 1,4-dichlorobenzene eq."/kg
[E997] captan to sea water	6.50E-07	kg 1,4-dichlorobenzene eq."/kg
[E998] carbaryl to sea water	1.90E-06	kg 1,4-dichlorobenzene eq."/kg
[E999] carbendazim to sea water	2.40E-08	kg 1,4-dichlorobenzene eq."/kg
[E1000] carbofuran to sea water	0.00018	kg 1,4-dichlorobenzene eq."/kg
[E1001] carbon disulfide to sea water	0.0065	kg 1,4-dichlorobenzene eq."/kg
[E1002] Carcinogenic PAHs to sea water	0.12	kg 1,4-dichlorobenzene eq."/kg
[E1004] chlordane to sea water	31	kg 1,4-dichlorobenzene eq."/kg
[E1005] chlorfenvinphos to sea water	5.60E-05	kg 1,4-dichlorobenzene eq."/kg
[E1006] chloridazon to sea water	0.0035	kg 1,4-dichlorobenzene eq."/kg
[E1008] chlorobenzene to sea water	0.00026	kg 1,4-dichlorobenzene eq."/kg

[E1009] chlorothalonil to sea water	0.14 kg 1,4-dichlorobenzene eq."/kg
[E1010] chlorpropham to sea water	2.80E-05 kg 1,4-dichlorobenzene eq."/kg
[E1011] chlorpyriphos to sea water	0.23 kg 1,4-dichlorobenzene eq."/kg
[E1012] chromium III to sea water	8.80E-23 kg 1,4-dichlorobenzene eq."/kg
[E1013] chromium VI to sea water	3.50E-22 kg 1,4-dichlorobenzene eq."/kg
[E1014] chrysene to sea water	0.26 kg 1,4-dichlorobenzene eq."/kg
[E1015] cobalt to sea water	1.20E-18 kg 1,4-dichlorobenzene eq."/kg
[E1016] copper to sea water	4.10E-20 kg 1,4-dichlorobenzene eq."/kg
[E1017] coumaphos to sea water	110 kg 1,4-dichlorobenzene eq."/kg
[E1018] cyanazine to sea water	2.50E-06 kg 1,4-dichlorobenzene eq."/kg
[E1019] cypermethrin to sea water	2.4 kg 1,4-dichlorobenzene eq."/kg
[E1020] cyromazine to sea water	8.10E-07 kg 1,4-dichlorobenzene eq."/kg
[E1021] DDT to sea water	15 kg 1,4-dichlorobenzene eq."/kg
[E1022] deltamethrin to sea water	3.2 kg 1,4-dichlorobenzene eq."/kg
[E1023] demeton to sea water	0.017 kg 1,4-dichlorobenzene eq."/kg
[E1024] desmetryn to sea water	4.10E-06 kg 1,4-dichlorobenzene eq."/kg
[E1025] Di(2-ethylhexyl)phtalate to sea water	0.0016 kg 1,4-dichlorobenzene eq."/kg
[E1026] diazinon to sea water	0.064 kg 1,4-dichlorobenzene eq."/kg
[E1027] Dibutylphtalate to sea water	2.90E-05 kg 1,4-dichlorobenzene eq."/kg
[E1028] Dichloromethane (Methylene Chloride) to sea water	5.00E-06 kg 1,4-dichlorobenzene eq."/kg
[E1029] dichlorprop to sea water	1.60E-12 kg 1,4-dichlorobenzene eq."/kg
[E1030] dichlorvos to sea water	0.011 kg 1,4-dichlorobenzene eq."/kg
[E1031] dieldrin to sea water	16 kg 1,4-dichlorobenzene eq."/kg
[E1032] Diethylphtalate to sea water	7.90E-05 kg 1,4-dichlorobenzene eq."/kg
[E1033] Dihexylphtalate to sea water	0.011 kg 1,4-dichlorobenzene eq."/kg
[E1034] Diisodecylphtalate to sea water	0.038 kg 1,4-dichlorobenzene eq."/kg
[E1035] Diisooctylphtalate to sea water	0.0039 kg 1,4-dichlorobenzene eq."/kg
[E1036] dimethoate to sea water	7.40E-06 kg 1,4-dichlorobenzene eq."/kg
[E1037] Dimethylphtalate to sea water	3.80E-07 kg 1,4-dichlorobenzene eq."/kg
[E1038] dinoseb to sea water	0.11 kg 1,4-dichlorobenzene eq."/kg
[E1039] dinoterb to sea water	0.042 kg 1,4-dichlorobenzene eq."/kg
[E1040] Dioctylphtalate to sea water	0.00014 kg 1,4-dichlorobenzene eq."/kg
[E1041] disulfothon to sea water	0.013 kg 1,4-dichlorobenzene eq."/kg
[E1042] diuron to sea water	0.013 kg 1,4-dichlorobenzene eq."/kg
[E1043] DNOC to sea water	2.10E-08 kg 1,4-dichlorobenzene eq."/kg
[E1044] endosulfan to sea water	0.021 kg 1,4-dichlorobenzene eq."/kg
[E1045] endrin to sea water	6.1 kg 1,4-dichlorobenzene eq."/kg
[E1046] ethoprophos to sea water	1 kg 1,4-dichlorobenzene eq."/kg
[E1047] ethylbenzene to sea water	9.40E-06 kg 1,4-dichlorobenzene eq."/kg
[E1048] ethylene to sea water	1.00E-12 kg 1,4-dichlorobenzene eq."/kg
[E1049] fenitrothion to sea water	0.0099 kg 1,4-dichlorobenzene eq."/kg
[E1050] fenthion to sea water	0.26 kg 1,4-dichlorobenzene eq."/kg
[E1051] fentin acetate to sea water	0.087 kg 1,4-dichlorobenzene eq."/kg
[E1052] fentin chloride to sea water	18 kg 1,4-dichlorobenzene eq."/kg
[E1053] fentin hydroxide to sea water	0.029 kg 1,4-dichlorobenzene eq."/kg
[E1054] fluoranthrene to sea water	0.87 kg 1,4-dichlorobenzene eq."/kg
[E1055] folpet to sea water	16 kg 1,4-dichlorobenzene eq."/kg
[E1056] Formaldehyde (methanal) to sea water	0.00021 kg 1,4-dichlorobenzene eq."/kg
[E1057] glyphosate to sea water	2.10E-11 kg 1,4-dichlorobenzene eq."/kg
[E1058] heptachlor to sea water	0.039 kg 1,4-dichlorobenzene eq."/kg
[E1059] heptenophos to sea water	0.0013 kg 1,4-dichlorobenzene eq."/kg
[E1060] hexachloro-1,3-butadiene to sea water	23 kg 1,4-dichlorobenzene eq."/kg
[E1061] hexachlorobenzene to sea water	1.1 kg 1,4-dichlorobenzene eq."/kg
[E1064] indeno[1,2,3-cd]pyrene to sea water	0.00074 kg 1,4-dichlorobenzene eq."/kg
[E1065] iprodione to sea water	3.80E-09 kg 1,4-dichlorobenzene eq."/kg
[E1066] isoproturon to sea water	2.90E-05 kg 1,4-dichlorobenzene eq."/kg
[E1067] lead to sea water	5.60E-23 kg 1,4-dichlorobenzene eq."/kg
[E1068] lindane to sea water	0.11 kg 1,4-dichlorobenzene eq."/kg
[E1069] linuron to sea water	0.06 kg 1,4-dichlorobenzene eq."/kg
[E1070] malathion to sea water	0.018 kg 1,4-dichlorobenzene eq."/kg
[E1072] MCPA to sea water	5.30E-13 kg 1,4-dichlorobenzene eq."/kg
[E1073] mecoprop to sea water	3.80E-10 kg 1,4-dichlorobenzene eq."/kg
[E1074] mercury to sea water	6.8 kg 1,4-dichlorobenzene eq."/kg
[E1075] metamitron to sea water	6.80E-10 kg 1,4-dichlorobenzene eq."/kg
[E1076] metazachlor to sea water	3.00E-06 kg 1,4-dichlorobenzene eq."/kg
[E1077] methabenzthiazuron to sea water	9.20E-05 kg 1,4-dichlorobenzene eq."/kg
[E1078] methomyl to sea water	0.0085 kg 1,4-dichlorobenzene eq."/kg

[E1079] methylbromide to sea water	0.0023 kg 1,4-dichlorobenzene eq."/kg
[E1080] methyl-mercury to sea water	160 kg 1,4-dichlorobenzene eq."/kg
[E1081] metobromuron to sea water	0.0016 kg 1,4-dichlorobenzene eq."/kg
[E1082] metolachlor to sea water	0.07 kg 1,4-dichlorobenzene eq."/kg
[E1083] mevinphos to sea water	6.90E-05 kg 1,4-dichlorobenzene eq."/kg
[E1084] molybdenum to sea water	6.60E-19 kg 1,4-dichlorobenzene eq."/kg
[E1085] m-xylene to sea water	7.20E-06 kg 1,4-dichlorobenzene eq."/kg
[E1086] naphtalene to sea water	0.011 kg 1,4-dichlorobenzene eq."/kg
[E1087] nickel to sea water	6.10E-19 kg 1,4-dichlorobenzene eq."/kg
[E1093] oxamyl to sea water	4.50E-07 kg 1,4-dichlorobenzene eq."/kg
[E1094] oxydemethon-methyl to sea water	0.0003 kg 1,4-dichlorobenzene eq."/kg
[E1095] o-xylene to sea water	1.50E-05 kg 1,4-dichlorobenzene eq."/kg
[E1096] parathion-ethyl to sea water	0.2 kg 1,4-dichlorobenzene eq."/kg
[E1097] parathion-methyl to sea water	0.12 kg 1,4-dichlorobenzene eq."/kg
[E1098] pentachlorobenzene to sea water	0.24 kg 1,4-dichlorobenzene eq."/kg
[E1099] pentachloronitrobenzene to sea water	11 kg 1,4-dichlorobenzene eq."/kg
[E1100] pentachlorophenol to sea water	1.20E-05 kg 1,4-dichlorobenzene eq."/kg
[E1101] permethrin to sea water	10 kg 1,4-dichlorobenzene eq."/kg
[E1102] phenanthrene to sea water	0.058 kg 1,4-dichlorobenzene eq."/kg
[E1103] phenol to sea water	1.70E-05 kg 1,4-dichlorobenzene eq."/kg
[E1106] phoxim to sea water	0.033 kg 1,4-dichlorobenzene eq."/kg
[E1107] Phtalic anhydride to sea water	4.60E-11 kg 1,4-dichlorobenzene eq."/kg
[E1108] pirimicarb to sea water	0.00089 kg 1,4-dichlorobenzene eq."/kg
[E1110] propachlor to sea water	0.0005 kg 1,4-dichlorobenzene eq."/kg
[E1111] propoxur to sea water	0.00012 kg 1,4-dichlorobenzene eq."/kg
[E1112] propylene oxide to sea water	0.00044 kg 1,4-dichlorobenzene eq."/kg
[E1113] p-xylene to sea water	1.00E-05 kg 1,4-dichlorobenzene eq."/kg
[E1114] pyrazophos to sea water	0.0023 kg 1,4-dichlorobenzene eq."/kg
[E1115] selenium to sea water	7.40E-18 kg 1,4-dichlorobenzene eq."/kg
[E1116] simazine to sea water	0.0045 kg 1,4-dichlorobenzene eq."/kg
[E1117] styrene (vinylbenzene) to sea water	1.00E-05 kg 1,4-dichlorobenzene eq."/kg
[E1120] tetrachloroethylene (PER) to sea water	0.0002 kg 1,4-dichlorobenzene eq."/kg
[E1121] Tetrachloromethane (carbon tetrachloride) (HC-10) to sea water	0.00019 kg 1,4-dichlorobenzene eq."/kg
[E1122] thallium to sea water	7.90E-18 kg 1,4-dichlorobenzene eq."/kg
[E1123] Thiram to sea water	0.026 kg 1,4-dichlorobenzene eq."/kg
[E1124] tin to sea water	9.50E-23 kg 1,4-dichlorobenzene eq."/kg
[E1125] tolclophos-methyl to sea water	0.029 kg 1,4-dichlorobenzene eq."/kg
[E1126] toluene to sea water	8.30E-06 kg 1,4-dichlorobenzene eq."/kg
[E1127] tri-allate to sea water	1.1 kg 1,4-dichlorobenzene eq."/kg
[E1128] triazophos to sea water	0.079 kg 1,4-dichlorobenzene eq."/kg
[E1129] tributyltinoxide to sea water	3 kg 1,4-dichlorobenzene eq."/kg
[E1130] trichlorfon to sea water	5.30E-06 kg 1,4-dichlorobenzene eq."/kg
[E1131] Trichloroethylene (tri) to sea water	1.60E-05 kg 1,4-dichlorobenzene eq."/kg
[E1132] Trichloromethane=chloroform to sea water	4.50E-05 kg 1,4-dichlorobenzene eq."/kg
[E1133] trifluarin to sea water	1.8 kg 1,4-dichlorobenzene eq."/kg
[E1134] vanadium to sea water	2.40E-18 kg 1,4-dichlorobenzene eq."/kg
[E1135] Vinyl Chloride (chloroethene) to sea water	1.40E-06 kg 1,4-dichlorobenzene eq."/kg
[E1136] zinc to sea water	1.80E-21 kg 1,4-dichlorobenzene eq."/kg
[E1137] zineb to sea water	0.0036 kg 1,4-dichlorobenzene eq."/kg
[E1138] 1,1,1-trichloroethane to sea water	0.00037 kg 1,4-dichlorobenzene eq."/kg
[E1139] 1,2,3,4-tetrachlorobenzene to sea water	0.028 kg 1,4-dichlorobenzene eq."/kg
[E1140] 1,2,3,5-tetrachlorobenzene to sea water	0.083 kg 1,4-dichlorobenzene eq."/kg
[E1141] 1,2,3-trichlorobenzene to sea water	0.023 kg 1,4-dichlorobenzene eq."/kg
[E1142] 1,2,4,5-tetrachlorobenzene to sea water	0.025 kg 1,4-dichlorobenzene eq."/kg
[E1143] 1,2,4-trichlorobenzene to sea water	0.02 kg 1,4-dichlorobenzene eq."/kg
[E1144] 1,2-dichlorobenzene to sea water	0.019 kg 1,4-dichlorobenzene eq."/kg
[E1145] 1,2-dichloroethane to sea water	0.00075 kg 1,4-dichlorobenzene eq."/kg
[E1146] 1,3,5-trichlorobenzene to sea water	0.054 kg 1,4-dichlorobenzene eq."/kg
[E1147] 1,3-butadiene to sea water	5.70E-05 kg 1,4-dichlorobenzene eq."/kg
[E1148] 1,3-dichlorobenzene to sea water	0.018 kg 1,4-dichlorobenzene eq."/kg
[E1149] 1,4-dichlorobenzene to sea water	0.014 kg 1,4-dichlorobenzene eq."/kg
[E1150] 1-chloro-4-nitrobenzene to sea water	150 kg 1,4-dichlorobenzene eq."/kg
[E1151] 2,3,4,6-tetrachlorophenol to sea water	32 kg 1,4-dichlorobenzene eq."/kg
[E1152] 2,3,7,8-TCDD to sea water	1.20E+05 kg 1,4-dichlorobenzene eq."/kg
[E1153] 2,4,5-T to sea water	0.44 kg 1,4-dichlorobenzene eq."/kg
[E1154] 2,4,5-trichlorophenol to sea water	28 kg 1,4-dichlorobenzene eq."/kg
[E1155] 2,4,6-trichlorophenol to agricultural soil	1.2 kg 1,4-dichlorobenzene eq."/kg

[E1156] 2,4-D to agricultural soil	29 kg 1,4-dichlorobenzene eq."/kg
[E1157] 2,4-dichlorophenol to agricultural soil	2.5 kg 1,4-dichlorobenzene eq."/kg
[E1158] 2-chlorophenol to agricultural soil	7.9 kg 1,4-dichlorobenzene eq."/kg
[E1159] 3,4-dichloroaniline to agricultural soil	1800 kg 1,4-dichlorobenzene eq."/kg
[E1160] 3-chloroaniline to agricultural soil	74 kg 1,4-dichlorobenzene eq."/kg
[E1161] 4-chloroaniline to agricultural soil	170 kg 1,4-dichlorobenzene eq."/kg
[E1162] acephate to agricultural soil	51 kg 1,4-dichlorobenzene eq."/kg
[E1163] Acrolein (2-propenal) to agricultural soil	45000 kg 1,4-dichlorobenzene eq."/kg
[E1164] acrylonitrile to agricultural soil	6.5 kg 1,4-dichlorobenzene eq."/kg
[E1165] aldicarb to agricultural soil	96000 kg 1,4-dichlorobenzene eq."/kg
[E1166] aldrin to agricultural soil	280 kg 1,4-dichlorobenzene eq."/kg
[E1168] anilazine to agricultural soil	0.21 kg 1,4-dichlorobenzene eq."/kg
[E1169] anthracene to agricultural soil	82 kg 1,4-dichlorobenzene eq."/kg
[E1170] antimony to agricultural soil	10 kg 1,4-dichlorobenzene eq."/kg
[E1171] arsenic to agricultural soil	130 kg 1,4-dichlorobenzene eq."/kg
[E1172] atrazine to agricultural soil	340 kg 1,4-dichlorobenzene eq."/kg
[E1173] azinphos-ethyl to agricultural soil	2800 kg 1,4-dichlorobenzene eq."/kg
[E1174] azinphos-methyl to agricultural soil	190 kg 1,4-dichlorobenzene eq."/kg
[E1175] barium to agricultural soil	110 kg 1,4-dichlorobenzene eq."/kg
[E1176] benomyl to agricultural soil	4.6 kg 1,4-dichlorobenzene eq."/kg
[E1177] bentazone to agricultural soil	8.3 kg 1,4-dichlorobenzene eq."/kg
[E1178] benzene to agricultural soil	0.00072 kg 1,4-dichlorobenzene eq."/kg
[E1179] benzo[a]anthracene to agricultural soil	62 kg 1,4-dichlorobenzene eq."/kg
[E1180] benzo[a]pyrene to agricultural soil	130 kg 1,4-dichlorobenzene eq."/kg
[E1181] benzo[ghi]perylene to agricultural soil	61 kg 1,4-dichlorobenzene eq."/kg
[E1182] benzo[k]fluoranthrene to agricultural soil	5200 kg 1,4-dichlorobenzene eq."/kg
[E1183] benzylchloride to agricultural soil	0.92 kg 1,4-dichlorobenzene eq."/kg
[E1184] beryllium to agricultural soil	46000 kg 1,4-dichlorobenzene eq."/kg
[E1185] bifenthrin to agricultural soil	100 kg 1,4-dichlorobenzene eq."/kg
[E1186] Butylbenzylphtalate to agricultural soil	0.025 kg 1,4-dichlorobenzene eq."/kg
[E1187] cadmium to agricultural soil	780 kg 1,4-dichlorobenzene eq."/kg
[E1188] captafol to agricultural soil	27000 kg 1,4-dichlorobenzene eq."/kg
[E1189] captan to agricultural soil	0.4 kg 1,4-dichlorobenzene eq."/kg
[E1190] carbaryl to agricultural soil	23 kg 1,4-dichlorobenzene eq."/kg
[E1191] carbendazim to agricultural soil	2000 kg 1,4-dichlorobenzene eq."/kg
[E1192] carbofuran to agricultural soil	580 kg 1,4-dichlorobenzene eq."/kg
[E1193] carbon disulfide to agricultural soil	0.34 kg 1,4-dichlorobenzene eq."/kg
[E1194] Carcinogenic PAHs to agricultural soil	58 kg 1,4-dichlorobenzene eq."/kg
[E1195] chlordane to agricultural soil	94 kg 1,4-dichlorobenzene eq."/kg
[E1196] chlorfenvinphos to agricultural soil	16 kg 1,4-dichlorobenzene eq."/kg
[E1197] chloridazon to agricultural soil	1.8 kg 1,4-dichlorobenzene eq."/kg
[E1198] chlorobenzene to agricultural soil	0.0032 kg 1,4-dichlorobenzene eq."/kg
[E1199] chlorothalonil to agricultural soil	1 kg 1,4-dichlorobenzene eq."/kg
[E1200] chlorpropham to agricultural soil	1.8 kg 1,4-dichlorobenzene eq."/kg
[E1201] chlorpyriphos to agricultural soil	360 kg 1,4-dichlorobenzene eq."/kg
[E1202] chromium III to agricultural soil	5.3 kg 1,4-dichlorobenzene eq."/kg
[E1203] chromium VI to agricultural soil	21 kg 1,4-dichlorobenzene eq."/kg
[E1204] chrysene to agricultural soil	74 kg 1,4-dichlorobenzene eq."/kg
[E1205] cobalt to agricultural soil	17000 kg 1,4-dichlorobenzene eq."/kg
[E1206] copper to agricultural soil	590 kg 1,4-dichlorobenzene eq."/kg
[E1207] coumaphos to agricultural soil	1.00E+06 kg 1,4-dichlorobenzene eq."/kg
[E1208] cyanazine to agricultural soil	810 kg 1,4-dichlorobenzene eq."/kg
[E1209] cypermethrin to agricultural soil	2.00E+05 kg 1,4-dichlorobenzene eq."/kg
[E1210] cyromazine to agricultural soil	6500 kg 1,4-dichlorobenzene eq."/kg
[E1211] DDT to agricultural soil	87 kg 1,4-dichlorobenzene eq."/kg
[E1212] deltamethrin to agricultural soil	24 kg 1,4-dichlorobenzene eq."/kg
[E1213] demeton to agricultural soil	800 kg 1,4-dichlorobenzene eq."/kg
[E1214] desmetryn to agricultural soil	3 kg 1,4-dichlorobenzene eq."/kg
[E1215] Di(2-ethylhexyl)phtalate to agricultural soil	0.0015 kg 1,4-dichlorobenzene eq."/kg
[E1216] diazinon to agricultural soil	1300 kg 1,4-dichlorobenzene eq."/kg
[E1217] Dibutylphtalate to agricultural soil	0.079 kg 1,4-dichlorobenzene eq."/kg
[E1218] Dichloromethane (Methylene Chloride) to agricultural soil	0.00016 kg 1,4-dichlorobenzene eq."/kg
[E1219] dichlorprop to agricultural soil	0.013 kg 1,4-dichlorobenzene eq."/kg
[E1220] dichlorvos to agricultural soil	74 kg 1,4-dichlorobenzene eq."/kg
[E1221] dieldrin to agricultural soil	600 kg 1,4-dichlorobenzene eq."/kg
[E1222] Diethylphtalate to agricultural soil	0.16 kg 1,4-dichlorobenzene eq."/kg
[E1223] Dihexylphtalate to agricultural soil	0.018 kg 1,4-dichlorobenzene eq."/kg

[E1224] Diisodecylphtalate to agricultural soil	0.0046 kg 1,4-dichlorobenzene eq."/kg
[E1225] Diisooctylphtalate to agricultural soil	0.00062 kg 1,4-dichlorobenzene eq."/kg
[E1226] dimethoate to agricultural soil	8.9 kg 1,4-dichlorobenzene eq."/kg
[E1227] Dimethylphtalate to agricultural soil	0.0074 kg 1,4-dichlorobenzene eq."/kg
[E1228] dinoseb to agricultural soil	20000 kg 1,4-dichlorobenzene eq."/kg
[E1229] dinoterb to agricultural soil	330 kg 1,4-dichlorobenzene eq."/kg
[E1230] Dioctylphtalate to agricultural soil	4.20E-05 kg 1,4-dichlorobenzene eq."/kg
[E1231] disulfothon to agricultural soil	72 kg 1,4-dichlorobenzene eq."/kg
[E1232] diuron to agricultural soil	72 kg 1,4-dichlorobenzene eq."/kg
[E1233] DNOC to agricultural soil	1.2 kg 1,4-dichlorobenzene eq."/kg
[E1234] endosulfan to agricultural soil	2.2 kg 1,4-dichlorobenzene eq."/kg
[E1235] endrin to agricultural soil	21000 kg 1,4-dichlorobenzene eq."/kg
[E1236] ethoprophos to agricultural soil	11000 kg 1,4-dichlorobenzene eq."/kg
[E1237] ethylbenzene to agricultural soil	0.0018 kg 1,4-dichlorobenzene eq."/kg
[E1238] ethylene to agricultural soil	1.10E-09 kg 1,4-dichlorobenzene eq."/kg
[E1239] fenitrothion to agricultural soil	760 kg 1,4-dichlorobenzene eq."/kg
[E1240] fenthion to agricultural soil	3500 kg 1,4-dichlorobenzene eq."/kg
[E1241] fentin acetate to agricultural soil	380 kg 1,4-dichlorobenzene eq."/kg
[E1242] fentin chloride to agricultural soil	250 kg 1,4-dichlorobenzene eq."/kg
[E1243] fentin hydroxide to agricultural soil	380 kg 1,4-dichlorobenzene eq."/kg
[E1244] fluoranthrene to agricultural soil	19 kg 1,4-dichlorobenzene eq."/kg
[E1245] folpet to agricultural soil	4500 kg 1,4-dichlorobenzene eq."/kg
[E1246] Formaldehyde (methanal) to agricultural soil	15 kg 1,4-dichlorobenzene eq."/kg
[E1247] glyphosate to agricultural soil	0.92 kg 1,4-dichlorobenzene eq."/kg
[E1248] heptachlor to agricultural soil	2.3 kg 1,4-dichlorobenzene eq."/kg
[E1249] heptenophos to agricultural soil	31 kg 1,4-dichlorobenzene eq."/kg
[E1250] hexachloro-1,3-butadiene to agricultural soil	70 kg 1,4-dichlorobenzene eq."/kg
[E1251] hexachlorobenzene to agricultural soil	3.2 kg 1,4-dichlorobenzene eq."/kg
[E1254] indeno[1,2,3-cd]pyrene to agricultural soil	90 kg 1,4-dichlorobenzene eq."/kg
[E1255] iprodione to agricultural soil	0.23 kg 1,4-dichlorobenzene eq."/kg
[E1256] isoproturon to agricultural soil	170 kg 1,4-dichlorobenzene eq."/kg
[E1257] lead to agricultural soil	6.5 kg 1,4-dichlorobenzene eq."/kg
[E1258] lindane to agricultural soil	97 kg 1,4-dichlorobenzene eq."/kg
[E1259] linuron to agricultural soil	690 kg 1,4-dichlorobenzene eq."/kg
[E1260] malathion to agricultural soil	160 kg 1,4-dichlorobenzene eq."/kg
[E1261] MCPA to agricultural soil	0.46 kg 1,4-dichlorobenzene eq."/kg
[E1262] mecoprop to agricultural soil	30 kg 1,4-dichlorobenzene eq."/kg
[E1263] mercury to agricultural soil	850 kg 1,4-dichlorobenzene eq."/kg
[E1264] metamitron to agricultural soil	0.41 kg 1,4-dichlorobenzene eq."/kg
[E1265] metazachlor to agricultural soil	3.9 kg 1,4-dichlorobenzene eq."/kg
[E1266] methabenzthiazuron to agricultural soil	44 kg 1,4-dichlorobenzene eq."/kg
[E1267] methomyl to agricultural soil	14000 kg 1,4-dichlorobenzene eq."/kg
[E1268] methylbromide to agricultural soil	0.14 kg 1,4-dichlorobenzene eq."/kg
[E1269] methyl-mercury to agricultural soil	19000 kg 1,4-dichlorobenzene eq."/kg
[E1270] metobromuron to agricultural soil	95 kg 1,4-dichlorobenzene eq."/kg
[E1271] metolachlor to agricultural soil	1900 kg 1,4-dichlorobenzene eq."/kg
[E1272] mevinphos to agricultural soil	350 kg 1,4-dichlorobenzene eq."/kg
[E1273] molybdenum to agricultural soil	260 kg 1,4-dichlorobenzene eq."/kg
[E1274] m-xylene to agricultural soil	0.0019 kg 1,4-dichlorobenzene eq."/kg
[E1275] naphtalene to agricultural soil	3.8 kg 1,4-dichlorobenzene eq."/kg
[E1276] nickel to agricultural soil	1700 kg 1,4-dichlorobenzene eq."/kg
[E1278] oxamyl to agricultural soil	30 kg 1,4-dichlorobenzene eq."/kg
[E1279] oxydemethon-methyl to agricultural soil	970 kg 1,4-dichlorobenzene eq."/kg
[E1280] o-xylene to agricultural soil	0.0025 kg 1,4-dichlorobenzene eq."/kg
[E1281] parathion-ethyl to agricultural soil	500 kg 1,4-dichlorobenzene eq."/kg
[E1282] parathion-methyl to agricultural soil	1100 kg 1,4-dichlorobenzene eq."/kg
[E1283] pentachlorobenzene to agricultural soil	0.59 kg 1,4-dichlorobenzene eq."/kg
[E1284] pentachloronitrobenzene to agricultural soil	15 kg 1,4-dichlorobenzene eq."/kg
[E1285] pentachlorophenol to agricultural soil	0.33 kg 1,4-dichlorobenzene eq."/kg
[E1286] permethrin to agricultural soil	920 kg 1,4-dichlorobenzene eq."/kg
[E1287] phenanthrene to agricultural soil	0.29 kg 1,4-dichlorobenzene eq."/kg
[E1288] phenol to agricultural soil	3.5 kg 1,4-dichlorobenzene eq."/kg
[E1289] phoxim to agricultural soil	4.4 kg 1,4-dichlorobenzene eq."/kg
[E1290] Phtalic anhydride to agricultural soil	4.80E-05 kg 1,4-dichlorobenzene eq."/kg
[E1291] pirimicarb to agricultural soil	1700 kg 1,4-dichlorobenzene eq."/kg
[E1293] propachlor to agricultural soil	17 kg 1,4-dichlorobenzene eq."/kg
[E1294] propoxur to agricultural soil	20000 kg 1,4-dichlorobenzene eq."/kg

[E1295] propylene oxide to agricultural soil	0.42 kg 1,4-dichlorobenzene eq."/kg
[E1296] p-xylene to agricultural soil	0.0014 kg 1,4-dichlorobenzene eq."/kg
[E1297] pyrazophos to agricultural soil	250 kg 1,4-dichlorobenzene eq."/kg
[E1298] selenium to agricultural soil	1500 kg 1,4-dichlorobenzene eq."/kg
[E1299] simazine to agricultural soil	2300 kg 1,4-dichlorobenzene eq."/kg
[E1300] styrene (vinylbenzene) to agricultural soil	0.0015 kg 1,4-dichlorobenzene eq."/kg
[E1302] tetrachloroethylene (PER) to agricultural soil	0.0022 kg 1,4-dichlorobenzene eq."/kg
[E1303] Tetrachloromethane (carbon tetrachloride) (HC-10) to agricultural soil	0.00056 kg 1,4-dichlorobenzene eq."/kg
[E1304] thallium to agricultural soil	4200 kg 1,4-dichlorobenzene eq."/kg
[E1305] Thiram to agricultural soil	690 kg 1,4-dichlorobenzene eq."/kg
[E1306] tin to agricultural soil	6.9 kg 1,4-dichlorobenzene eq."/kg
[E1307] tolclophos-methyl to agricultural soil	3.1 kg 1,4-dichlorobenzene eq."/kg
[E1308] toluene to agricultural soil	0.0011 kg 1,4-dichlorobenzene eq."/kg
[E1309] tri-allate to agricultural soil	50 kg 1,4-dichlorobenzene eq."/kg
[E1310] triazophos to agricultural soil	5800 kg 1,4-dichlorobenzene eq."/kg
[E1311] tributyltinoxide to agricultural soil	1100 kg 1,4-dichlorobenzene eq."/kg
[E1312] trichlorfon to agricultural soil	3300 kg 1,4-dichlorobenzene eq."/kg
[E1313] Trichloroethylene (tri) to agricultural soil	0.00046 kg 1,4-dichlorobenzene eq."/kg
[E1314] Trichloromethane=chloroform to agricultural soil	0.00047 kg 1,4-dichlorobenzene eq."/kg
[E1315] trifluarin to agricultural soil	40 kg 1,4-dichlorobenzene eq."/kg
[E1316] vanadium to agricultural soil	4700 kg 1,4-dichlorobenzene eq."/kg
[E1317] Vinyl Chloride (chloroethene) to agricultural soil	6.40E-05 kg 1,4-dichlorobenzene eq."/kg
[E1318] zinc to agricultural soil	48 kg 1,4-dichlorobenzene eq."/kg
[E1319] zineb to agricultural soil	370 kg 1,4-dichlorobenzene eq."/kg
[E1320] 1,1,1-trichloroethane to agricultural soil	0.00037 kg 1,4-dichlorobenzene eq."/kg
[E1321] 1,2,3,4-tetrachlorobenzene to agricultural soil	0.1 kg 1,4-dichlorobenzene eq."/kg
[E1322] 1,2,3,5-tetrachlorobenzene to agricultural soil	0.19 kg 1,4-dichlorobenzene eq."/kg
[E1323] 1,2,3-trichlorobenzene to agricultural soil	0.03 kg 1,4-dichlorobenzene eq."/kg
[E1324] 1,2,4,5-tetrachlorobenzene to agricultural soil	0.09 kg 1,4-dichlorobenzene eq."/kg
[E1325] 1,2,4-trichlorobenzene to agricultural soil	0.032 kg 1,4-dichlorobenzene eq."/kg
[E1326] 1,2-dichlorobenzene to agricultural soil	0.019 kg 1,4-dichlorobenzene eq."/kg
[E1327] 1,2-dichloroethane to agricultural soil	0.00075 kg 1,4-dichlorobenzene eq."/kg
[E1328] 1,3,5-trichlorobenzene to agricultural soil	0.066 kg 1,4-dichlorobenzene eq."/kg
[E1329] 1,3-butadiene to agricultural soil	5.70E-05 kg 1,4-dichlorobenzene eq."/kg
[E1330] 1,3-dichlorobenzene to agricultural soil	0.018 kg 1,4-dichlorobenzene eq."/kg
[E1331] 1,4-dichlorobenzene to agricultural soil	0.014 kg 1,4-dichlorobenzene eq."/kg
[E1332] 1-chloro-4-nitrobenzene to agricultural soil	150 kg 1,4-dichlorobenzene eq."/kg
[E1333] 2,3,4,6-tetrachlorophenol to agricultural soil	120 kg 1,4-dichlorobenzene eq."/kg
[E1334] 2,3,7,8-TCDD to agricultural soil	4.90E+05 kg 1,4-dichlorobenzene eq."/kg
[E1335] 2,4,5-T to agricultural soil	1.5 kg 1,4-dichlorobenzene eq."/kg
[E1336] 2,4,5-trichlorophenol to agricultural soil	99 kg 1,4-dichlorobenzene eq."/kg
[E1337] 2,4,6-trichlorophenol to industrial soil	4.8 kg 1,4-dichlorobenzene eq."/kg
[E1338] 2,4-D to industrial soil	82 kg 1,4-dichlorobenzene eq."/kg
[E1339] 2,4-dichlorophenol to industrial soil	9.2 kg 1,4-dichlorobenzene eq."/kg
[E1340] 2-chlorophenol to industrial soil	31 kg 1,4-dichlorobenzene eq."/kg
[E1341] 3,4-dichloroaniline to industrial soil	4000 kg 1,4-dichlorobenzene eq."/kg
[E1342] 3-chloroaniline to industrial soil	250 kg 1,4-dichlorobenzene eq."/kg
[E1343] 4-chloroaniline to industrial soil	490 kg 1,4-dichlorobenzene eq."/kg
[E1344] acephate to industrial soil	160 kg 1,4-dichlorobenzene eq."/kg
[E1345] Acrolein (2-propenal) to industrial soil	45000 kg 1,4-dichlorobenzene eq."/kg
[E1346] acrylonitrile to industrial soil	8.1 kg 1,4-dichlorobenzene eq."/kg
[E1347] aldicarb to industrial soil	96000 kg 1,4-dichlorobenzene eq."/kg
[E1348] aldrin to industrial soil	290 kg 1,4-dichlorobenzene eq."/kg
[E1350] anilazine to industrial soil	0.86 kg 1,4-dichlorobenzene eq."/kg
[E1351] anthracene to industrial soil	320 kg 1,4-dichlorobenzene eq."/kg
[E1352] antimony to industrial soil	10 kg 1,4-dichlorobenzene eq."/kg
[E1353] arsenic to industrial soil	130 kg 1,4-dichlorobenzene eq."/kg
[E1354] atrazine to industrial soil	930 kg 1,4-dichlorobenzene eq."/kg
[E1355] azinphos-ethyl to industrial soil	3700 kg 1,4-dichlorobenzene eq."/kg
[E1356] azinphos-methyl to industrial soil	800 kg 1,4-dichlorobenzene eq."/kg
[E1357] barium to industrial soil	110 kg 1,4-dichlorobenzene eq."/kg
[E1358] benomyl to industrial soil	18 kg 1,4-dichlorobenzene eq."/kg
[E1359] bentazone to industrial soil	11 kg 1,4-dichlorobenzene eq."/kg
[E1360] benzene to industrial soil	0.00072 kg 1,4-dichlorobenzene eq."/kg
[E1361] benzo[a]anthracene to industrial soil	250 kg 1,4-dichlorobenzene eq."/kg
[E1362] benzo[a]pyrene to industrial soil	530 kg 1,4-dichlorobenzene eq."/kg
[E1363] benzo[ghi]perylene to industrial soil	240 kg 1,4-dichlorobenzene eq."/kg

[E1364] benzo[k]fluoranthrene to industrial soil	20000 kg 1,4-dichlorobenzene eq."/kg
[E1365] benzylchloride to industrial soil	3.2 kg 1,4-dichlorobenzene eq."/kg
[E1366] beryllium to industrial soil	46000 kg 1,4-dichlorobenzene eq."/kg
[E1367] bifenthrin to industrial soil	410 kg 1,4-dichlorobenzene eq."/kg
[E1368] Butylbenzylphtalate to industrial soil	0.1 kg 1,4-dichlorobenzene eq."/kg
[E1369] cadmium to industrial soil	780 kg 1,4-dichlorobenzene eq."/kg
[E1370] captafol to industrial soil	83000 kg 1,4-dichlorobenzene eq."/kg
[E1371] captan to industrial soil	4.7 kg 1,4-dichlorobenzene eq."/kg
[E1372] carbaryl to industrial soil	120 kg 1,4-dichlorobenzene eq."/kg
[E1373] carbendazim to industrial soil	6100 kg 1,4-dichlorobenzene eq."/kg
[E1374] carbofuran to industrial soil	1800 kg 1,4-dichlorobenzene eq."/kg
[E1375] carbon disulfide to industrial soil	0.34 kg 1,4-dichlorobenzene eq."/kg
[E1376] Carcinogenic PAHs to industrial soil	230 kg 1,4-dichlorobenzene eq."/kg
[E1377] chlordane to industrial soil	370 kg 1,4-dichlorobenzene eq."/kg
[E1378] chlorfenvinphos to industrial soil	59 kg 1,4-dichlorobenzene eq."/kg
[E1379] chloridazon to industrial soil	3.9 kg 1,4-dichlorobenzene eq."/kg
[E1380] chlorobenzene to industrial soil	0.0032 kg 1,4-dichlorobenzene eq."/kg
[E1381] chlorothalonil to industrial soil	3.7 kg 1,4-dichlorobenzene eq."/kg
[E1382] chlorpropham to industrial soil	6.4 kg 1,4-dichlorobenzene eq."/kg
[E1383] chlorpyriphos to industrial soil	1400 kg 1,4-dichlorobenzene eq."/kg
[E1384] chromium III to industrial soil	5.3 kg 1,4-dichlorobenzene eq."/kg
[E1385] chromium VI to industrial soil	21 kg 1,4-dichlorobenzene eq."/kg
[E1386] chrysene to industrial soil	290 kg 1,4-dichlorobenzene eq."/kg
[E1387] cobalt to industrial soil	1700 kg 1,4-dichlorobenzene eq."/kg
[E1388] copper to industrial soil	590 kg 1,4-dichlorobenzene eq."/kg
[E1389] coumaphos to industrial soil	3.10E+06 kg 1,4-dichlorobenzene eq."/kg
[E1390] cyanazine to industrial soil	3000 kg 1,4-dichlorobenzene eq."/kg
[E1391] cypermethrin to industrial soil	6.90E+05 kg 1,4-dichlorobenzene eq."/kg
[E1392] cyromazine to industrial soil	6500 kg 1,4-dichlorobenzene eq."/kg
[E1393] DDT to industrial soil	340 kg 1,4-dichlorobenzene eq."/kg
[E1394] deltamethrin to industrial soil	96 kg 1,4-dichlorobenzene eq."/kg
[E1395] demeton to industrial soil	2600 kg 1,4-dichlorobenzene eq."/kg
[E1396] desmetryn to industrial soil	11 kg 1,4-dichlorobenzene eq."/kg
[E1397] Di(2-ethylhexyl)phtalate to industrial soil	0.006 kg 1,4-dichlorobenzene eq."/kg
[E1398] diazinon to industrial soil	4600 kg 1,4-dichlorobenzene eq."/kg
[E1399] Dibutylphtalate to industrial soil	0.31 kg 1,4-dichlorobenzene eq."/kg
[E1400] Dichloromethane (Methylene Chloride) to industrial soil	0.00016 kg 1,4-dichlorobenzene eq."/kg
[E1401] dichlorprop to industrial soil	0.051 kg 1,4-dichlorobenzene eq."/kg
[E1402] dichlorvos to industrial soil	300 kg 1,4-dichlorobenzene eq."/kg
[E1403] dieldrin to industrial soil	2300 kg 1,4-dichlorobenzene eq."/kg
[E1404] Diethylphtalate to industrial soil	0.63 kg 1,4-dichlorobenzene eq."/kg
[E1405] Dihexylphtalate to industrial soil	0.074 kg 1,4-dichlorobenzene eq."/kg
[E1406] Diisodecylphtalate to industrial soil	0.018 kg 1,4-dichlorobenzene eq."/kg
[E1407] Diisooctylphtalate to industrial soil	0.0025 kg 1,4-dichlorobenzene eq."/kg
[E1408] dimethoate to industrial soil	28 kg 1,4-dichlorobenzene eq."/kg
[E1409] Dimethylphtalate to industrial soil	0.029 kg 1,4-dichlorobenzene eq."/kg
[E1410] dinoseb to industrial soil	58000 kg 1,4-dichlorobenzene eq."/kg
[E1411] dinoterb to industrial soil	1300 kg 1,4-dichlorobenzene eq."/kg
[E1412] Dioctylphtalate to industrial soil	0.00017 kg 1,4-dichlorobenzene eq."/kg
[E1413] disulfothon to industrial soil	290 kg 1,4-dichlorobenzene eq."/kg
[E1414] diuron to industrial soil	290 kg 1,4-dichlorobenzene eq."/kg
[E1415] DNOC to industrial soil	4.5 kg 1,4-dichlorobenzene eq."/kg
[E1416] endosulfan to industrial soil	9 kg 1,4-dichlorobenzene eq."/kg
[E1417] endrin to industrial soil	71000 kg 1,4-dichlorobenzene eq."/kg
[E1418] ethoprophos to industrial soil	30000 kg 1,4-dichlorobenzene eq."/kg
[E1419] ethylbenzene to industrial soil	0.0018 kg 1,4-dichlorobenzene eq."/kg
[E1420] ethylene to industrial soil	1.10E-09 kg 1,4-dichlorobenzene eq."/kg
[E1421] fenitrothion to industrial soil	3000 kg 1,4-dichlorobenzene eq."/kg
[E1422] fenthion to industrial soil	14000 kg 1,4-dichlorobenzene eq."/kg
[E1423] fentin acetate to industrial soil	1500 kg 1,4-dichlorobenzene eq."/kg
[E1424] fentin chloride to industrial soil	990 kg 1,4-dichlorobenzene eq."/kg
[E1425] fentin hydroxide to industrial soil	1500 kg 1,4-dichlorobenzene eq."/kg
[E1426] fluoranthrene to industrial soil	76 kg 1,4-dichlorobenzene eq."/kg
[E1427] folpet to industrial soil	13000 kg 1,4-dichlorobenzene eq."/kg
[E1428] Formaldehyde (methanal) to industrial soil	44 kg 1,4-dichlorobenzene eq."/kg
[E1429] glyphosate to industrial soil	3.7 kg 1,4-dichlorobenzene eq."/kg
[E1430] heptachlor to industrial soil	8.9 kg 1,4-dichlorobenzene eq."/kg

[E1431] heptenophos to industrial soil	120 kg 1,4-dichlorobenzene eq."/kg
[E1432] hexachloro-1,3-butadiene to industrial soil	84 kg 1,4-dichlorobenzene eq."/kg
[E1433] hexachlorobenzene to industrial soil	4.3 kg 1,4-dichlorobenzene eq."/kg
[E1436] indeno[1,2,3-cd]pyrene to industrial soil	360 kg 1,4-dichlorobenzene eq."/kg
[E1437] iprodione to industrial soil	1.9 kg 1,4-dichlorobenzene eq."/kg
[E1438] isoproturon to industrial soil	400 kg 1,4-dichlorobenzene eq."/kg
[E1439] lead to industrial soil	6.5 kg 1,4-dichlorobenzene eq."/kg
[E1440] lindane to industrial soil	370 kg 1,4-dichlorobenzene eq."/kg
[E1441] linuron to industrial soil	2400 kg 1,4-dichlorobenzene eq."/kg
[E1442] malathion to industrial soil	650 kg 1,4-dichlorobenzene eq."/kg
[E1443] MCPA to industrial soil	1.7 kg 1,4-dichlorobenzene eq."/kg
[E1444] mecoprop to industrial soil	78 kg 1,4-dichlorobenzene eq."/kg
[E1445] mercury to industrial soil	850 kg 1,4-dichlorobenzene eq."/kg
[E1446] metamitron to industrial soil	1.5 kg 1,4-dichlorobenzene eq."/kg
[E1447] metazachlor to industrial soil	14 kg 1,4-dichlorobenzene eq."/kg
[E1448] methabenzthiazuron to industrial soil	140 kg 1,4-dichlorobenzene eq."/kg
[E1449] methomyl to industrial soil	28000 kg 1,4-dichlorobenzene eq."/kg
[E1450] methylbromide to industrial soil	0.14 kg 1,4-dichlorobenzene eq."/kg
[E1451] methyl-mercury to industrial soil	19000 kg 1,4-dichlorobenzene eq."/kg
[E1452] metobromuron to industrial soil	95 kg 1,4-dichlorobenzene eq."/kg
[E1453] metolachlor to industrial soil	5800 kg 1,4-dichlorobenzene eq."/kg
[E1454] mevinphos to industrial soil	1500 kg 1,4-dichlorobenzene eq."/kg
[E1455] molybdenum to industrial soil	260 kg 1,4-dichlorobenzene eq."/kg
[E1456] m-xylene to industrial soil	0.0019 kg 1,4-dichlorobenzene eq."/kg
[E1457] naphtalene to industrial soil	12 kg 1,4-dichlorobenzene eq."/kg
[E1458] nickel to industrial soil	1700 kg 1,4-dichlorobenzene eq."/kg
[E1460] oxamyl to industrial soil	120 kg 1,4-dichlorobenzene eq."/kg
[E1461] oxydemethon-methyl to industrial soil	3600 kg 1,4-dichlorobenzene eq."/kg
[E1462] o-xylene to industrial soil	0.0025 kg 1,4-dichlorobenzene eq."/kg
[E1463] parathion-ethyl to industrial soil	1900 kg 1,4-dichlorobenzene eq."/kg
[E1464] parathion-methyl to industrial soil	4400 kg 1,4-dichlorobenzene eq."/kg
[E1465] pentachlorobenzene to industrial soil	1.1 kg 1,4-dichlorobenzene eq."/kg
[E1466] pentachloronitrobenzene to industrial soil	58 kg 1,4-dichlorobenzene eq."/kg
[E1467] pentachlorophenol to industrial soil	1.3 kg 1,4-dichlorobenzene eq."/kg
[E1468] permethrin to industrial soil	3700 kg 1,4-dichlorobenzene eq."/kg
[E1469] phenanthrene to industrial soil	1.2 kg 1,4-dichlorobenzene eq."/kg
[E1470] phenol to industrial soil	13 kg 1,4-dichlorobenzene eq."/kg
[E1471] phoxim to industrial soil	7.9 kg 1,4-dichlorobenzene eq."/kg
[E1472] Phtalic anhydride to industrial soil	3.10E-05 kg 1,4-dichlorobenzene eq."/kg
[E1473] pirimicarb to industrial soil	5200 kg 1,4-dichlorobenzene eq."/kg
[E1475] propachlor to industrial soil	64 kg 1,4-dichlorobenzene eq."/kg
[E1476] propoxur to industrial soil	54000 kg 1,4-dichlorobenzene eq."/kg
[E1477] propylene oxide to industrial soil	0.48 kg 1,4-dichlorobenzene eq."/kg
[E1478] p-xylene to industrial soil	0.0014 kg 1,4-dichlorobenzene eq."/kg
[E1479] pyrazophos to industrial soil	990 kg 1,4-dichlorobenzene eq."/kg
[E1480] selenium to industrial soil	1500 kg 1,4-dichlorobenzene eq."/kg
[E1481] simazine to industrial soil	5600 kg 1,4-dichlorobenzene eq."/kg
[E1482] styrene (vinylbenzene) to industrial soil	0.0026 kg 1,4-dichlorobenzene eq."/kg
[E1484] tetrachloroethylene (PER) to industrial soil	0.00056 kg 1,4-dichlorobenzene eq."/kg
[E1485] Tetrachloromethane (carbon tetrachloride) (HC-10) to industrial soil	0.00056 kg 1,4-dichlorobenzene eq."/kg
[E1486] thallium to industrial soil	4200 kg 1,4-dichlorobenzene eq."/kg
[E1487] Thiram to industrial soil	4400 kg 1,4-dichlorobenzene eq."/kg
[E1488] tin to industrial soil	6.9 kg 1,4-dichlorobenzene eq."/kg
[E1489] tolclophos-methyl to industrial soil	9.2 kg 1,4-dichlorobenzene eq."/kg
[E1490] toluene to industrial soil	0.0011 kg 1,4-dichlorobenzene eq."/kg
[E1491] tri-allate to industrial soil	200 kg 1,4-dichlorobenzene eq."/kg
[E1492] triazophos to industrial soil	19000 kg 1,4-dichlorobenzene eq."/kg
[E1493] tributyltinoxide to industrial soil	4200 kg 1,4-dichlorobenzene eq."/kg
[E1494] trichlorfon to industrial soil	18000 kg 1,4-dichlorobenzene eq."/kg
[E1495] Trichloroethylene (tri) to industrial soil	0.00046 kg 1,4-dichlorobenzene eq."/kg
[E1496] Trichloromethane=chloroform to industrial soil	0.00047 kg 1,4-dichlorobenzene eq."/kg
[E1497] trifluarin to industrial soil	160 kg 1,4-dichlorobenzene eq."/kg
[E1498] vanadium to industrial soil	4700 kg 1,4-dichlorobenzene eq."/kg
[E1499] Vinyl Chloride (chloroethene) to industrial soil	6.40E-05 kg 1,4-dichlorobenzene eq."/kg
[E1500] zinc to industrial soil	48 kg 1,4-dichlorobenzene eq."/kg
[E1501] zineb to industrial soil	1400 kg 1,4-dichlorobenzene eq."/kg

Category = [C7] Aquatic ecotoxicity salt water
Description = Problem oriented approach, manual 1999; AETP
Author = anonymous
Date = 1/18/00

Environmental resources

Environmental resource	Value	Unit

Environmental emissions

Environmental emission	Value	Unit
[E90] 1,1,1-trichloroethane (methyl chloroform; HC-140a) to air	0.33	kg 1,4-dichlorobenzene eq."/kg
[E94] 1,2,3,4-tetrachlorobenzene to air	17	kg 1,4-dichlorobenzene eq."/kg
[E95] 1,2,3,5-tetrachlorobenzene to air	18	kg 1,4-dichlorobenzene eq."/kg
[E96] 1,2,3-trichlorobenzene to air	2.1	kg 1,4-dichlorobenzene eq."/kg
[E98] 1,2,4,5-tetrachlorobenzene to air	15	kg 1,4-dichlorobenzene eq."/kg
[E99] 1,2,4-trichlorobenzene to air	2	kg 1,4-dichlorobenzene eq."/kg
[E102] 1,2-dichlorobenzene to air	0.67	kg 1,4-dichlorobenzene eq."/kg
[E103] 1,2-dichloroethane to air	0.082	kg 1,4-dichlorobenzene eq."/kg
[E107] 1,3,5-trichlorobenzene to air	3	kg 1,4-dichlorobenzene eq."/kg
[E111] 1,3-Butadiene to air	2.70E-06	kg 1,4-dichlorobenzene eq."/kg
[E112] 1,3-dichlorobenzene to air	0.46	kg 1,4-dichlorobenzene eq."/kg
[E116] 1,4-dichlorobenzene to air	0.74	kg 1,4-dichlorobenzene eq."/kg
[E128] 1-chloro-4-nitrobenzene to air	390	kg 1,4-dichlorobenzene eq."/kg
[E166] 2,3,4,6-tetrachlorophenol to air	130	kg 1,4-dichlorobenzene eq."/kg
[E168] 2,3,7,8-TCDD (tetrachloride-dibenzo-dioxin) to air	3.00E+08	kg 1,4-dichlorobenzene eq."/kg
[E172] 2,4,5-T to air	0.2	kg 1,4-dichlorobenzene eq."/kg
[E173] 2,4,5-trichlorophenol to air	53	kg 1,4-dichlorobenzene eq."/kg
[E174] 2,4,6-trichlorophenol to air	3.9	kg 1,4-dichlorobenzene eq."/kg
[E175] 2,4-D to air	5.3	kg 1,4-dichlorobenzene eq."/kg
[E176] 2,4-dichlorophenol to air	1.3	kg 1,4-dichlorobenzene eq."/kg
[E185] 2-chlorophenol to air	12	kg 1,4-dichlorobenzene eq."/kg
[E208] 3,4-dichloroaniline to air	1700	kg 1,4-dichlorobenzene eq."/kg
[E217] 3-chloroaniline to air	23	kg 1,4-dichlorobenzene eq."/kg
[E228] 4-chloroaniline to air	1.7	kg 1,4-dichlorobenzene eq."/kg
[E231] acephate to air	19	kg 1,4-dichlorobenzene eq."/kg
[E236] Acrolein (2-propenal) to air	570	kg 1,4-dichlorobenzene eq."/kg
[E237] Acrylonitrile to air	0.91	kg 1,4-dichlorobenzene eq."/kg
[E241] aldicarb to air	8200	kg 1,4-dichlorobenzene eq."/kg
[E242] aldrin to air	61	kg 1,4-dichlorobenzene eq."/kg
[E251] anilazine to air	8.3	kg 1,4-dichlorobenzene eq."/kg
[E252] anthracene to air	1700	kg 1,4-dichlorobenzene eq."/kg
[E253] antimony to air	33000	kg 1,4-dichlorobenzene eq."/kg
[E255] arsenic to air	2.30E+05	kg 1,4-dichlorobenzene eq."/kg
[E256] atrazine to air	280	kg 1,4-dichlorobenzene eq."/kg
[E257] azinphos-ethyl to air	160	kg 1,4-dichlorobenzene eq."/kg
[E258] azinphos-methyl to air	200	kg 1,4-dichlorobenzene eq."/kg
[E259] barium to air	7.80E+05	kg 1,4-dichlorobenzene eq."/kg
[E260] benomyl to air	21	kg 1,4-dichlorobenzene eq."/kg
[E261] bentazone to air	0.62	kg 1,4-dichlorobenzene eq."/kg
[E263] Benzene to air	0.0028	kg 1,4-dichlorobenzene eq."/kg
[E264] benzo[a]anthracene to air	1000	kg 1,4-dichlorobenzene eq."/kg
[E265] benzo[a]pyrene to air	1400	kg 1,4-dichlorobenzene eq."/kg
[E266] benzo[ghi]perylene to air	1700	kg 1,4-dichlorobenzene eq."/kg
[E267] benzo[k]fluoranthrene to air	1.20E+05	kg 1,4-dichlorobenzene eq."/kg
[E269] benzylchloride to air	2.1	kg 1,4-dichlorobenzene eq."/kg
[E270] beryllium to air	4.70E+08	kg 1,4-dichlorobenzene eq."/kg
[E272] bifenthrin to air	1000	kg 1,4-dichlorobenzene eq."/kg
[E290] Butylbenzylphtalate to air	0.32	kg 1,4-dichlorobenzene eq."/kg
[E385] cadmium to air	1.10E+06	kg 1,4-dichlorobenzene eq."/kg
[E387] captafol to air	27000	kg 1,4-dichlorobenzene eq."/kg
[E388] captan to air	10	kg 1,4-dichlorobenzene eq."/kg
[E389] carbaryl to air	120	kg 1,4-dichlorobenzene eq."/kg
[E390] carbendazim to air	720	kg 1,4-dichlorobenzene eq."/kg
[E391] carbofuran to air	150	kg 1,4-dichlorobenzene eq."/kg
[E394] carbon disulfide to air	1.5	kg 1,4-dichlorobenzene eq."/kg
[E404] chlordane to air	61000	kg 1,4-dichlorobenzene eq."/kg

[E405] chlorfenvinphos to air	11 kg 1,4-dichlorobenzene eq."/kg
[E406] chloridazon to air	0.22 kg 1,4-dichlorobenzene eq."/kg
[E407] chlorobenzene to air	0.11 kg 1,4-dichlorobenzene eq."/kg
[E410] chlorothalonil to air	51 kg 1,4-dichlorobenzene eq."/kg
[E411] chlorpropham to air	0.64 kg 1,4-dichlorobenzene eq."/kg
[E412] chlorpyriphos to air	62 kg 1,4-dichlorobenzene eq."/kg
[E413] chromium (unspecified) to air	5200 kg 1,4-dichlorobenzene eq."/kg
[E414] chromium III to air	5200 kg 1,4-dichlorobenzene eq."/kg
[E415] chromium VI to air	21000 kg 1,4-dichlorobenzene eq."/kg
[E416] chrysene to air	410 kg 1,4-dichlorobenzene eq."/kg
[E421] cobalt to air	5.40E+06 kg 1,4-dichlorobenzene eq."/kg
[E422] copper to air	8.90E+05 kg 1,4-dichlorobenzene eq."/kg
[E423] coumaphos to air	3.40E+05 kg 1,4-dichlorobenzene eq."/kg
[E425] cyanazine to air	630 kg 1,4-dichlorobenzene eq."/kg
[E437] cypermethrin to air	19000 kg 1,4-dichlorobenzene eq."/kg
[E438] cyromazine to air	920 kg 1,4-dichlorobenzene eq."/kg
[E439] DDT to air	86000 kg 1,4-dichlorobenzene eq."/kg
[E441] deltamethrin to air	3500 kg 1,4-dichlorobenzene eq."/kg
[E442] demeton to air	9.1 kg 1,4-dichlorobenzene eq."/kg
[E443] desmetryn to air	2.6 kg 1,4-dichlorobenzene eq."/kg
[E444] Di(2-ethylhexyl)phtalate to air	2.4 kg 1,4-dichlorobenzene eq."/kg
[E446] diazinon to air	120 kg 1,4-dichlorobenzene eq."/kg
[E448] Dibutylphtalate to air	0.44 kg 1,4-dichlorobenzene eq."/kg
[E449] Dichloromethane (Methylene Chloride) to air	0.0038 kg 1,4-dichlorobenzene eq."/kg
[E450] dichlorprop to air	0.062 kg 1,4-dichlorobenzene eq."/kg
[E451] dichlorvos to air	410 kg 1,4-dichlorobenzene eq."/kg
[E452] dieldrin to air	5200 kg 1,4-dichlorobenzene eq."/kg
[E456] Diethylphtalate to air	0.34 kg 1,4-dichlorobenzene eq."/kg
[E457] Dihexylphtalate to air	1.7 kg 1,4-dichlorobenzene eq."/kg
[E458] Diisodecylphtalate to air	4.7 kg 1,4-dichlorobenzene eq."/kg
[E459] Diisooctylphtalate to air	3.6 kg 1,4-dichlorobenzene eq."/kg
[E461] dimethoate to air	1.6 kg 1,4-dichlorobenzene eq."/kg
[E468] Dimethylphtalate to air	0.027 kg 1,4-dichlorobenzene eq."/kg
[E470] dinoseb to air	4600 kg 1,4-dichlorobenzene eq."/kg
[E471] dinoterb to air	7300 kg 1,4-dichlorobenzene eq."/kg
[E472] Dioctylphtalate to air	0.54 kg 1,4-dichlorobenzene eq."/kg
[E475] disulfothon to air	20 kg 1,4-dichlorobenzene eq."/kg
[E476] diuron to air	20 kg 1,4-dichlorobenzene eq."/kg
[E478] DNOC to air	1.3 kg 1,4-dichlorobenzene eq."/kg
[E480] endosulfan to air	19 kg 1,4-dichlorobenzene eq."/kg
[E481] endrin to air	49000 kg 1,4-dichlorobenzene eq."/kg
[E487] ethoprophos to air	710 kg 1,4-dichlorobenzene eq."/kg
[E496] Ethylbenzene to air	0.0008 kg 1,4-dichlorobenzene eq."/kg
[E499] Ethylene (ethene) to air	7.90E-11 kg 1,4-dichlorobenzene eq."/kg
[E504] fenitrothion to air	1500 kg 1,4-dichlorobenzene eq."/kg
[E505] fenthion to air	1600 kg 1,4-dichlorobenzene eq."/kg
[E506] fentin acetate to air	21000 kg 1,4-dichlorobenzene eq."/kg
[E507] fentin chloride to air	47000 kg 1,4-dichlorobenzene eq."/kg
[E508] fentin hydroxide to air	20000 kg 1,4-dichlorobenzene eq."/kg
[E509] fluoranthrene to air	200 kg 1,4-dichlorobenzene eq."/kg
[E510] folpet to air	2300 kg 1,4-dichlorobenzene eq."/kg
[E511] Formaldehyde (methanal) to air	1.6 kg 1,4-dichlorobenzene eq."/kg
[E516] glyphosate to air	17 kg 1,4-dichlorobenzene eq."/kg
[E533] heptachlor to air	2.9 kg 1,4-dichlorobenzene eq."/kg
[E535] heptenophos to air	78 kg 1,4-dichlorobenzene eq."/kg
[E536] hexachloro-1,3-butadiene to air	77000 kg 1,4-dichlorobenzene eq."/kg
[E537] hexachlorobenzene to air	2400 kg 1,4-dichlorobenzene eq."/kg
[E566] indeno[1,2,3-cd]pyrene to air	7300 kg 1,4-dichlorobenzene eq."/kg
[E568] iprodione to air	0.32 kg 1,4-dichlorobenzene eq."/kg
[E583] isoproturon to air	32 kg 1,4-dichlorobenzene eq."/kg
[E584] lead to air	7000 kg 1,4-dichlorobenzene eq."/kg
[E585] lindane to air	52 kg 1,4-dichlorobenzene eq."/kg
[E586] linuron to air	27 kg 1,4-dichlorobenzene eq."/kg
[E587] malathion to air	1400 kg 1,4-dichlorobenzene eq."/kg
[E589] MCPA to air	0.28 kg 1,4-dichlorobenzene eq."/kg
[E590] mecoprop to air	4.1 kg 1,4-dichlorobenzene eq."/kg
[E592] mercury to air	1.20E+06 kg 1,4-dichlorobenzene eq."/kg

[E595] metamitron to air	0.25 kg 1,4-dichlorobenzene eq."/kg
[E596] meta-Xylene (1,3-dimethylbenzene) to air	0.00039 kg 1,4-dichlorobenzene eq."/kg
[E597] metazachlor to air	2.2 kg 1,4-dichlorobenzene eq."/kg
[E598] methabenzthiazuron to air	25 kg 1,4-dichlorobenzene eq."/kg
[E603] methomyl to air	3900 kg 1,4-dichlorobenzene eq."/kg
[E626] methyl-mercury to air	2.80E+07 kg 1,4-dichlorobenzene eq."/kg
[E628] metobromuron to air	42 kg 1,4-dichlorobenzene eq."/kg
[E629] metolachlor to air	380 kg 1,4-dichlorobenzene eq."/kg
[E630] mevinphos to air	5400 kg 1,4-dichlorobenzene eq."/kg
[E632] molybdenum to air	1.90E+06 kg 1,4-dichlorobenzene eq."/kg
[E633] Naphtalene to air	0.91 kg 1,4-dichlorobenzene eq."/kg
[E635] nickel to air	3.80E+06 kg 1,4-dichlorobenzene eq."/kg
[E650] ortho-Xylene (1,2-dimethylbenzene) to air	0.00091 kg 1,4-dichlorobenzene eq."/kg
[E651] oxamyl to air	1.4 kg 1,4-dichlorobenzene eq."/kg
[E652] oxydemethon-methyl to air	500 kg 1,4-dichlorobenzene eq."/kg
[E655] parathion-ethyl to air	3100 kg 1,4-dichlorobenzene eq."/kg
[E656] parathion-methyl to air	720 kg 1,4-dichlorobenzene eq."/kg
[E658] para-Xylene (1,4-dimethylbenzene) to air	0.00061 kg 1,4-dichlorobenzene eq."/kg
[E660] pentachlorobenzene to air	170 kg 1,4-dichlorobenzene eq."/kg
[E661] pentachloronitrobenzene to air	6000 kg 1,4-dichlorobenzene eq."/kg
[E662] pentachlorophenol to air	40 kg 1,4-dichlorobenzene eq."/kg
[E672] permethrin to air	31000 kg 1,4-dichlorobenzene eq."/kg
[E674] phenanthrene to air	7.3 kg 1,4-dichlorobenzene eq."/kg
[E675] Phenol to air	0.55 kg 1,4-dichlorobenzene eq."/kg
[E679] phoxim to air	1.6 kg 1,4-dichlorobenzene eq."/kg
[E680] Phtalic anhydride to air	0.0085 kg 1,4-dichlorobenzene eq."/kg
[E682] pirimicarb to air	410 kg 1,4-dichlorobenzene eq."/kg
[E685] Polycyclic Aromatic Hydrocarbons Carcinogenic- (carcinogenic-PAH) to air	4300 kg 1,4-dichlorobenzene eq."/kg
[E686] propachlor to air	7.1 kg 1,4-dichlorobenzene eq."/kg
[E690] propoxur to air	1800 kg 1,4-dichlorobenzene eq."/kg
[E697] Propylene Oxide to air	0.14 kg 1,4-dichlorobenzene eq."/kg
[E698] pyrazophos to air	94 kg 1,4-dichlorobenzene eq."/kg
[E704] selenium to air	2.10E+07 kg 1,4-dichlorobenzene eq."/kg
[E705] simazine to air	280 kg 1,4-dichlorobenzene eq."/kg
[E706] styrene (vinylbenzene) to air	0.00051 kg 1,4-dichlorobenzene eq."/kg
[E718] tetrachloroethylene (PER) (tetrachloroethene) to air	0.34 kg 1,4-dichlorobenzene eq."/kg
[E719] Tetrachloromethane (carbon tetrachloride) (HC-10) to air	1.2 kg 1,4-dichlorobenzene eq."/kg
[E722] thallium to air	2.60E+07 kg 1,4-dichlorobenzene eq."/kg
[E723] Thiram to air	310 kg 1,4-dichlorobenzene eq."/kg
[E724] tin to air	7500 kg 1,4-dichlorobenzene eq."/kg
[E725] tolclophos-methyl to air	1.4 kg 1,4-dichlorobenzene eq."/kg
[E727] Toluene to air	0.0007 kg 1,4-dichlorobenzene eq."/kg
[E733] tri-allate to air	150 kg 1,4-dichlorobenzene eq."/kg
[E734] triazophos to air	850 kg 1,4-dichlorobenzene eq."/kg
[E735] tributyltinoxide to air	3.10E+05 kg 1,4-dichlorobenzene eq."/kg
[E736] trichlorfon to air	1800 kg 1,4-dichlorobenzene eq."/kg
[E737] Trichloroethylene (tri) to air	0.0027 kg 1,4-dichlorobenzene eq."/kg
[E738] Trichloromethane (chloroform) to air	0.059 kg 1,4-dichlorobenzene eq."/kg
[E739] trifluarin to air	100 kg 1,4-dichlorobenzene eq."/kg
[E743] vanadium to air	1.20E+07 kg 1,4-dichlorobenzene eq."/kg
[E745] Vinyl Chloride (chloroethene) to air	0.00013 kg 1,4-dichlorobenzene eq."/kg
[E748] zinc to air	67000 kg 1,4-dichlorobenzene eq."/kg
[E749] zineb to air	410 kg 1,4-dichlorobenzene eq."/kg
[E750] 1,1,1-trichloroethane to air	0.32 kg 1,4-dichlorobenzene eq."/kg
[E751] 1,2,3,4-tetrachlorobenzene to air	16 kg 1,4-dichlorobenzene eq."/kg
[E752] 1,2,3,5-tetrachlorobenzene to air	17 kg 1,4-dichlorobenzene eq."/kg
[E753] 1,2,3-trichlorobenzene to air	2.1 kg 1,4-dichlorobenzene eq."/kg
[E754] 1,2,4,5-tetrachlorobenzene to air	14 kg 1,4-dichlorobenzene eq."/kg
[E755] 1,2,4-trichlorobenzene to air	2 kg 1,4-dichlorobenzene eq."/kg
[E756] 1,2-dichlorobenzene to air	0.66 kg 1,4-dichlorobenzene eq."/kg
[E757] 1,2-dichloroethane to air	0.081 kg 1,4-dichlorobenzene eq."/kg
[E758] 1,3,5-trichlorobenzene to air	3 kg 1,4-dichlorobenzene eq."/kg
[E759] 1,3-butadiene to air	0.0087 kg 1,4-dichlorobenzene eq."/kg
[E760] 1,3-dichlorobenzene to air	0.46 kg 1,4-dichlorobenzene eq."/kg
[E761] 1,4-dichlorobenzene to air	0.73 kg 1,4-dichlorobenzene eq."/kg
[E762] 1-chloro-4-nitrobenzene to air	370 kg 1,4-dichlorobenzene eq."/kg
[E763] 2,3,4,6-tetrachlorophenol to air	91 kg 1,4-dichlorobenzene eq."/kg

[E764] 2,3,7,8-TCDD to air	4.50E+07 kg 1,4-dichlorobenzene eq."/kg
[E765] 2,4,5-T to air	0.061 kg 1,4-dichlorobenzene eq."/kg
[E766] 2,4,5-trichlorophenol to air	64 kg 1,4-dichlorobenzene eq."/kg
[E767] 2,4,6-trichlorophenol to fresh water	1.6 kg 1,4-dichlorobenzene eq."/kg
[E768] 2,4-D to fresh water	2.3 kg 1,4-dichlorobenzene eq."/kg
[E769] 2,4-dichlorophenol to fresh water	0.25 kg 1,4-dichlorobenzene eq."/kg
[E770] 2-chlorophenol to fresh water	13 kg 1,4-dichlorobenzene eq."/kg
[E771] 3,4-dichloroaniline to fresh water	2800 kg 1,4-dichlorobenzene eq."/kg
[E772] 3-chloroaniline to fresh water	11 kg 1,4-dichlorobenzene eq."/kg
[E773] 4-chloroaniline to fresh water	14 kg 1,4-dichlorobenzene eq."/kg
[E774] acephate to fresh water	15 kg 1,4-dichlorobenzene eq."/kg
[E775] Acrolein (2-propenal) to fresh water	1100 kg 1,4-dichlorobenzene eq."/kg
[E776] acrylonitrile to fresh water	0.54 kg 1,4-dichlorobenzene eq."/kg
[E777] aldicarb to fresh water	7400 kg 1,4-dichlorobenzene eq."/kg
[E778] aldrin to fresh water	210 kg 1,4-dichlorobenzene eq."/kg
[E780] anilazine to fresh water	0.25 kg 1,4-dichlorobenzene eq."/kg
[E781] anthracene to fresh water	3000 kg 1,4-dichlorobenzene eq."/kg
[E782] antimony to fresh water	27000 kg 1,4-dichlorobenzene eq."/kg
[E783] arsenic to fresh water	1.20E+05 kg 1,4-dichlorobenzene eq."/kg
[E784] atrazine to fresh water	490 kg 1,4-dichlorobenzene eq."/kg
[E785] azinphos-ethyl to fresh water	1000 kg 1,4-dichlorobenzene eq."/kg
[E786] azinphos-methyl to fresh water	35 kg 1,4-dichlorobenzene eq."/kg
[E787] barium to fresh water	8.30E+05 kg 1,4-dichlorobenzene eq."/kg
[E788] benomyl to fresh water	8.6 kg 1,4-dichlorobenzene eq."/kg
[E789] bentazone to fresh water	0.22 kg 1,4-dichlorobenzene eq."/kg
[E790] benzene to fresh water	0.0027 kg 1,4-dichlorobenzene eq."/kg
[E791] benzo[a]anthracene to fresh water	8300 kg 1,4-dichlorobenzene eq."/kg
[E792] benzo[a]pyrene to fresh water	12000 kg 1,4-dichlorobenzene eq."/kg
[E793] benzo[ghi]perylene to fresh water	9100 kg 1,4-dichlorobenzene eq."/kg
[E794] benzo[k]fluoranthrene to fresh water	4.40E+05 kg 1,4-dichlorobenzene eq."/kg
[E795] benzylchloride to fresh water	1.2 kg 1,4-dichlorobenzene eq."/kg
[E796] beryllium to fresh water	5.40E+08 kg 1,4-dichlorobenzene eq."/kg
[E797] bifenthrin to fresh water	210 kg 1,4-dichlorobenzene eq."/kg
[E800] Butylbenzylphtalate to fresh water	0.053 kg 1,4-dichlorobenzene eq."/kg
[E801] cadmium to fresh water	2.20E+05 kg 1,4-dichlorobenzene eq."/kg
[E802] captafol to fresh water	80000 kg 1,4-dichlorobenzene eq."/kg
[E803] captan to fresh water	0.1 kg 1,4-dichlorobenzene eq."/kg
[E804] carbaryl to fresh water	1.4 kg 1,4-dichlorobenzene eq."/kg
[E805] carbendazim to fresh water	580 kg 1,4-dichlorobenzene eq."/kg
[E806] carbofuran to fresh water	44 kg 1,4-dichlorobenzene eq."/kg
[E807] carbon disulfide to fresh water	1.8 kg 1,4-dichlorobenzene eq."/kg
[E808] Carcinogenic PAHs to fresh water	5500 kg 1,4-dichlorobenzene eq."/kg
[E810] chlordane to fresh water	8900 kg 1,4-dichlorobenzene eq."/kg
[E811] chlorfenvinphos to fresh water	5.7 kg 1,4-dichlorobenzene eq."/kg
[E812] chloridazon to fresh water	1.2 kg 1,4-dichlorobenzene eq."/kg
[E814] chlorobenzene to fresh water	0.11 kg 1,4-dichlorobenzene eq."/kg
[E815] chlorothalonil to fresh water	40 kg 1,4-dichlorobenzene eq."/kg
[E816] chlorpropham to fresh water	0.35 kg 1,4-dichlorobenzene eq."/kg
[E817] chlorpyriphos to fresh water	240 kg 1,4-dichlorobenzene eq."/kg
[E818] chromium III to fresh water	860 kg 1,4-dichlorobenzene eq."/kg
[E819] chromium VI to fresh water	3400 kg 1,4-dichlorobenzene eq."/kg
[E820] chrysene to fresh water	3000 kg 1,4-dichlorobenzene eq."/kg
[E821] cobalt to fresh water	4.40E+06 kg 1,4-dichlorobenzene eq."/kg
[E822] copper to fresh water	2.30E+05 kg 1,4-dichlorobenzene eq."/kg
[E823] coumaphos to fresh water	3.00E+06 kg 1,4-dichlorobenzene eq."/kg
[E824] cyanazine to fresh water	190 kg 1,4-dichlorobenzene eq."/kg
[E825] cypermethrin to fresh water	10000 kg 1,4-dichlorobenzene eq."/kg
[E826] cyromazine to fresh water	1000 kg 1,4-dichlorobenzene eq."/kg
[E827] DDT to fresh water	4400 kg 1,4-dichlorobenzene eq."/kg
[E828] deltamethrin to fresh water	980 kg 1,4-dichlorobenzene eq."/kg
[E829] demeton to fresh water	96 kg 1,4-dichlorobenzene eq."/kg
[E830] desmetryn to fresh water	1.5 kg 1,4-dichlorobenzene eq."/kg
[E831] Di(2-ethylhexyl)phtalate to fresh water	0.37 kg 1,4-dichlorobenzene eq."/kg
[E832] diazinon to fresh water	640 kg 1,4-dichlorobenzene eq."/kg
[E833] Dibutylphtalate to fresh water	0.077 kg 1,4-dichlorobenzene eq."/kg
[E834] Dichloromethane (Methylene Chloride) to fresh water	0.0035 kg 1,4-dichlorobenzene eq."/kg
[E835] dichlorprop to fresh water	0.015 kg 1,4-dichlorobenzene eq."/kg

[E836] dichlorvos to fresh water	12 kg 1,4-dichlorobenzene eq."/kg
[E837] dieldrin to fresh water	9000 kg 1,4-dichlorobenzene eq."/kg
[E838] Diethylphtalate to fresh water	0.11 kg 1,4-dichlorobenzene eq."/kg
[E839] Dihexylphtalate to fresh water	1.2 kg 1,4-dichlorobenzene eq."/kg
[E840] Diisodecylphtalate to fresh water	2.3 kg 1,4-dichlorobenzene eq."/kg
[E841] Diisooctylphtalate to fresh water	0.43 kg 1,4-dichlorobenzene eq."/kg
[E842] dimethoate to fresh water	0.75 kg 1,4-dichlorobenzene eq."/kg
[E843] Dimethylphtalate to fresh water	0.0017 kg 1,4-dichlorobenzene eq."/kg
[E844] dinoseb to fresh water	5900 kg 1,4-dichlorobenzene eq."/kg
[E845] dinoterb to fresh water	5400 kg 1,4-dichlorobenzene eq."/kg
[E846] Dioctylphtalate to fresh water	0.035 kg 1,4-dichlorobenzene eq."/kg
[E847] disulfothon to fresh water	120 kg 1,4-dichlorobenzene eq."/kg
[E848] diuron to fresh water	120 kg 1,4-dichlorobenzene eq."/kg
[E849] DNOC to fresh water	0.34 kg 1,4-dichlorobenzene eq."/kg
[E850] endosulfan to fresh water	11 kg 1,4-dichlorobenzene eq."/kg
[E851] endrin to fresh water	3.40E+05 kg 1,4-dichlorobenzene eq."/kg
[E852] ethoprophos to fresh water	3500 kg 1,4-dichlorobenzene eq."/kg
[E853] ethylbenzene to fresh water	0.0014 kg 1,4-dichlorobenzene eq."/kg
[E854] ethylene to fresh water	2.80E-05 kg 1,4-dichlorobenzene eq."/kg
[E855] fenitrothion to fresh water	670 kg 1,4-dichlorobenzene eq."/kg
[E856] fenthion to fresh water	3600 kg 1,4-dichlorobenzene eq."/kg
[E857] fentin acetate to fresh water	3200 kg 1,4-dichlorobenzene eq."/kg
[E858] fentin chloride to fresh water	19000 kg 1,4-dichlorobenzene eq."/kg
[E859] fentin hydroxide to fresh water	3100 kg 1,4-dichlorobenzene eq."/kg
[E860] fluoranthrene to fresh water	870 kg 1,4-dichlorobenzene eq."/kg
[E861] folpet to fresh water	12000 kg 1,4-dichlorobenzene eq."/kg
[E862] Formaldehyde (methanal) to fresh water	0.19 kg 1,4-dichlorobenzene eq."/kg
[E863] glyphosate to fresh water	4.2 kg 1,4-dichlorobenzene eq."/kg
[E864] heptachlor to fresh water	12 kg 1,4-dichlorobenzene eq."/kg
[E865] heptenophos to fresh water	11 kg 1,4-dichlorobenzene eq."/kg
[E866] hexachloro-1,3-butadiene to fresh water	75000 kg 1,4-dichlorobenzene eq."/kg
[E867] hexachlorobenzene to fresh water	2400 kg 1,4-dichlorobenzene eq."/kg
[E870] indeno[1,2,3-cd]pyrene to fresh water	15000 kg 1,4-dichlorobenzene eq."/kg
[E871] iprodione to fresh water	0.015 kg 1,4-dichlorobenzene eq."/kg
[E872] isoproturon to fresh water	20 kg 1,4-dichlorobenzene eq."/kg
[E873] lead to fresh water	1100 kg 1,4-dichlorobenzene eq."/kg
[E874] lindane to fresh water	88 kg 1,4-dichlorobenzene eq."/kg
[E875] linuron to fresh water	560 kg 1,4-dichlorobenzene eq."/kg
[E876] malathion to fresh water	770 kg 1,4-dichlorobenzene eq."/kg
[E878] MCPA to fresh water	0.036 kg 1,4-dichlorobenzene eq."/kg
[E879] mecoprop to fresh water	0.67 kg 1,4-dichlorobenzene eq."/kg
[E880] mercury to fresh water	2.10E+05 kg 1,4-dichlorobenzene eq."/kg
[E881] metamitron to fresh water	0.063 kg 1,4-dichlorobenzene eq."/kg
[E882] metazachlor to fresh water	1.3 kg 1,4-dichlorobenzene eq."/kg
[E883] methabenzthiazuron to fresh water	25 kg 1,4-dichlorobenzene eq."/kg
[E884] methomyl to fresh water	4200 kg 1,4-dichlorobenzene eq."/kg
[E885] methylbromide to fresh water	3.5 kg 1,4-dichlorobenzene eq."/kg
[E886] methyl-mercury to fresh water	4.90E+06 kg 1,4-dichlorobenzene eq."/kg
[E887] metobromuron to fresh water	64 kg 1,4-dichlorobenzene eq."/kg
[E888] metolachlor to fresh water	580 kg 1,4-dichlorobenzene eq."/kg
[E889] mevinphos to fresh water	570 kg 1,4-dichlorobenzene eq."/kg
[E890] molybdenum to fresh water	2.10E+06 kg 1,4-dichlorobenzene eq."/kg
[E891] m-xylene to fresh water	0.0021 kg 1,4-dichlorobenzene eq."/kg
[E892] naphtalene to fresh water	1.1 kg 1,4-dichlorobenzene eq."/kg
[E893] nickel to fresh water	2.20E+06 kg 1,4-dichlorobenzene eq."/kg
[E899] oxamyl to fresh water	0.18 kg 1,4-dichlorobenzene eq."/kg
[E900] oxydemethon-methyl to fresh water	140 kg 1,4-dichlorobenzene eq."/kg
[E901] o-xylene to fresh water	0.0025 kg 1,4-dichlorobenzene eq."/kg
[E902] parathion-ethyl to fresh water	5300 kg 1,4-dichlorobenzene eq."/kg
[E903] parathion-methyl to fresh water	1500 kg 1,4-dichlorobenzene eq."/kg
[E904] pentachlorobenzene to fresh water	170 kg 1,4-dichlorobenzene eq."/kg
[E905] pentachloronitrobenzene to fresh water	2800 kg 1,4-dichlorobenzene eq."/kg
[E906] pentachlorophenol to fresh water	12 kg 1,4-dichlorobenzene eq."/kg
[E907] permethrin to fresh water	27000 kg 1,4-dichlorobenzene eq."/kg
[E908] phenanthrene to fresh water	10 kg 1,4-dichlorobenzene eq."/kg
[E909] phenol to fresh water	0.056 kg 1,4-dichlorobenzene eq."/kg
[E912] phoxim to fresh water	5 kg 1,4-dichlorobenzene eq."/kg

[E913] Phtalic anhydride to fresh water	4.10E-06 kg 1,4-dichlorobenzene eq."/kg
[E914] pirimicarb to fresh water	160 kg 1,4-dichlorobenzene eq."/kg
[E916] propachlor to fresh water	2.4 kg 1,4-dichlorobenzene eq."/kg
[E917] propoxur to fresh water	500 kg 1,4-dichlorobenzene eq."/kg
[E918] propylene oxide to fresh water	0.064 kg 1,4-dichlorobenzene eq."/kg
[E919] p-xylene to fresh water	0.0022 kg 1,4-dichlorobenzene eq."/kg
[E920] pyrazophos to fresh water	120 kg 1,4-dichlorobenzene eq."/kg
[E921] selenium to fresh water	2.50E+07 kg 1,4-dichlorobenzene eq."/kg
[E922] simazine to fresh water	140 kg 1,4-dichlorobenzene eq."/kg
[E923] styrene (vinylbenzene) to fresh water	0.0022 kg 1,4-dichlorobenzene eq."/kg
[E926] tetrachloroethylene (PER) to fresh water	0.34 kg 1,4-dichlorobenzene eq."/kg
[E927] Tetrachloromethane (carbon tetrachloride) (HC-10) to fresh water	1.1 kg 1,4-dichlorobenzene eq."/kg
[E928] thallium to fresh water	2.70E+07 kg 1,4-dichlorobenzene eq."/kg
[E929] Thiram to fresh water	75 kg 1,4-dichlorobenzene eq."/kg
[E930] tin to fresh water	1200 kg 1,4-dichlorobenzene eq."/kg
[E931] tolclophos-methyl to fresh water	4.4 kg 1,4-dichlorobenzene eq."/kg
[E932] toluene to fresh water	0.0012 kg 1,4-dichlorobenzene eq."/kg
[E933] tri-allate to fresh water	780 kg 1,4-dichlorobenzene eq."/kg
[E934] triazophos to fresh water	1500 kg 1,4-dichlorobenzene eq."/kg
[E935] tributyltinoxide to fresh water	2.10E+05 kg 1,4-dichlorobenzene eq."/kg
[E936] trichlorfon to fresh water	83 kg 1,4-dichlorobenzene eq."/kg
[E937] Trichloroethylene (tri) to fresh water	0.0033 kg 1,4-dichlorobenzene eq."/kg
[E938] Trichloromethane=chloroform to fresh water	0.058 kg 1,4-dichlorobenzene eq."/kg
[E939] trifluarin to fresh water	420 kg 1,4-dichlorobenzene eq."/kg
[E940] vanadium to fresh water	8.60E+06 kg 1,4-dichlorobenzene eq."/kg
[E941] Vinyl Chloride (chloroethene) to fresh water	0.00038 kg 1,4-dichlorobenzene eq."/kg
[E942] zinc to fresh water	14000 kg 1,4-dichlorobenzene eq."/kg
[E943] zineb to fresh water	250 kg 1,4-dichlorobenzene eq."/kg
[E944] 1,1,1-trichloroethane to fresh water	0.28 kg 1,4-dichlorobenzene eq."/kg
[E945] 1,2,3,4-tetrachlorobenzene to fresh water	15 kg 1,4-dichlorobenzene eq."/kg
[E946] 1,2,3,5-tetrachlorobenzene to fresh water	16 kg 1,4-dichlorobenzene eq."/kg
[E947] 1,2,3-trichlorobenzene to fresh water	3.6 kg 1,4-dichlorobenzene eq."/kg
[E948] 1,2,4,5-tetrachlorobenzene to fresh water	13 kg 1,4-dichlorobenzene eq."/kg
[E949] 1,2,4-trichlorobenzene to fresh water	3.1 kg 1,4-dichlorobenzene eq."/kg
[E950] 1,2-dichlorobenzene to fresh water	0.95 kg 1,4-dichlorobenzene eq."/kg
[E951] 1,2-dichloroethane to fresh water	0.091 kg 1,4-dichlorobenzene eq."/kg
[E952] 1,3,5-trichlorobenzene to fresh water	4.5 kg 1,4-dichlorobenzene eq."/kg
[E953] 1,3-butadiene to fresh water	0.73 kg 1,4-dichlorobenzene eq."/kg
[E954] 1,3-dichlorobenzene to fresh water	1 kg 1,4-dichlorobenzene eq."/kg
[E955] 1,4-dichlorobenzene to fresh water	1 kg 1,4-dichlorobenzene eq."/kg
[E956] 1-chloro-4-nitrobenzene to fresh water	370 kg 1,4-dichlorobenzene eq."/kg
[E957] 2,3,4,6-tetrachlorophenol to fresh water	220 kg 1,4-dichlorobenzene eq."/kg
[E958] 2,3,7,8-TCDD to fresh water	5.00E+08 kg 1,4-dichlorobenzene eq."/kg
[E959] 2,4,5-T to fresh water	0.4 kg 1,4-dichlorobenzene eq."/kg
[E960] 2,4,5-trichlorophenol to fresh water	120 kg 1,4-dichlorobenzene eq."/kg
[E961] 2,4,6-trichlorophenol to sea water	7.6 kg 1,4-dichlorobenzene eq."/kg
[E962] 2,4-D to sea water	10 kg 1,4-dichlorobenzene eq."/kg
[E963] 2,4-dichlorophenol to sea water	3.7 kg 1,4-dichlorobenzene eq."/kg
[E964] 2-chlorophenol to sea water	46 kg 1,4-dichlorobenzene eq."/kg
[E965] 3,4-dichloroaniline to sea water	3300 kg 1,4-dichlorobenzene eq."/kg
[E966] 3-chloroaniline to sea water	59 kg 1,4-dichlorobenzene eq."/kg
[E967] 4-chloroaniline to sea water	96 kg 1,4-dichlorobenzene eq."/kg
[E968] acephate to sea water	37 kg 1,4-dichlorobenzene eq."/kg
[E969] Acrolein (2-propenal) to sea water	8900 kg 1,4-dichlorobenzene eq."/kg
[E970] acrylonitrile to sea water	3.1 kg 1,4-dichlorobenzene eq."/kg
[E971] aldicarb to sea water	15000 kg 1,4-dichlorobenzene eq."/kg
[E972] aldrin to sea water	8000 kg 1,4-dichlorobenzene eq."/kg
[E974] anilazine to sea water	20 kg 1,4-dichlorobenzene eq."/kg
[E975] anthracene to sea water	18000 kg 1,4-dichlorobenzene eq."/kg
[E976] antimony to sea water	49000 kg 1,4-dichlorobenzene eq."/kg
[E977] arsenic to sea water	3.40E+05 kg 1,4-dichlorobenzene eq."/kg
[E978] atrazine to sea water	610 kg 1,4-dichlorobenzene eq."/kg
[E979] azinphos-ethyl to sea water	5900 kg 1,4-dichlorobenzene eq."/kg
[E980] azinphos-methyl to sea water	1000 kg 1,4-dichlorobenzene eq."/kg
[E981] barium to sea water	1.10E+06 kg 1,4-dichlorobenzene eq."/kg
[E982] benomyl to sea water	150 kg 1,4-dichlorobenzene eq."/kg
[E983] bentazone to sea water	1.2 kg 1,4-dichlorobenzene eq."/kg

[E984] benzene to sea water	0.015 kg 1,4-dichlorobenzene eq."/kg
[E985] benzo[a]anthracene to sea water	85000 kg 1,4-dichlorobenzene eq."/kg
[E986] benzo[a]pyrene to sea water	1.20E+05 kg 1,4-dichlorobenzene eq."/kg
[E987] benzo[ghi]perylene to sea water	65000 kg 1,4-dichlorobenzene eq."/kg
[E988] benzo[k]fluoranthrene to sea water	1.50E+06 kg 1,4-dichlorobenzene eq."/kg
[E989] benzylchloride to sea water	7.8 kg 1,4-dichlorobenzene eq."/kg
[E990] beryllium to sea water	6.40E+08 kg 1,4-dichlorobenzene eq."/kg
[E991] bifenthrin to sea water	8900 kg 1,4-dichlorobenzene eq."/kg
[E994] Butylbenzylphtalate to sea water	1.6 kg 1,4-dichlorobenzene eq."/kg
[E995] cadmium to sea water	1.80E+06 kg 1,4-dichlorobenzene eq."/kg
[E996] captafol to sea water	94000 kg 1,4-dichlorobenzene eq."/kg
[E997] captan to sea water	40 kg 1,4-dichlorobenzene eq."/kg
[E998] carbaryl to sea water	24 kg 1,4-dichlorobenzene eq."/kg
[E999] carbendazim to sea water	1300 kg 1,4-dichlorobenzene eq."/kg
[E1000] carbofuran to sea water	300 kg 1,4-dichlorobenzene eq."/kg
[E1001] carbon disulfide to sea water	30 kg 1,4-dichlorobenzene eq."/kg
[E1002] Carcinogenic PAHs to sea water	24000 kg 1,4-dichlorobenzene eq."/kg
[E1004] chlordane to sea water	4.70E+05 kg 1,4-dichlorobenzene eq."/kg
[E1005] chlorfenvinphos to sea water	28 kg 1,4-dichlorobenzene eq."/kg
[E1006] chloridazon to sea water	8 kg 1,4-dichlorobenzene eq."/kg
[E1008] chlorobenzene to sea water	0.35 kg 1,4-dichlorobenzene eq."/kg
[E1009] chlorothalonil to sea water	36 kg 1,4-dichlorobenzene eq."/kg
[E1010] chlorpropham to sea water	2 kg 1,4-dichlorobenzene eq."/kg
[E1011] chlorpyriphos to sea water	2200 kg 1,4-dichlorobenzene eq."/kg
[E1012] chromium III to sea water	8200 kg 1,4-dichlorobenzene eq."/kg
[E1013] chromium VI to sea water	33000 kg 1,4-dichlorobenzene eq."/kg
[E1014] chrysene to sea water	7600 kg 1,4-dichlorobenzene eq."/kg
[E1015] cobalt to sea water	8.00E+06 kg 1,4-dichlorobenzene eq."/kg
[E1016] copper to sea water	1.50E+06 kg 1,4-dichlorobenzene eq."/kg
[E1017] coumaphos to sea water	3.60E+06 kg 1,4-dichlorobenzene eq."/kg
[E1018] cyanazine to sea water	1300 kg 1,4-dichlorobenzene eq."/kg
[E1019] cypermethrin to sea water	1.60E+05 kg 1,4-dichlorobenzene eq."/kg
[E1020] cyromazine to sea water	1600 kg 1,4-dichlorobenzene eq."/kg
[E1021] DDT to sea water	1.90E+05 kg 1,4-dichlorobenzene eq."/kg
[E1022] deltamethrin to sea water	36000 kg 1,4-dichlorobenzene eq."/kg
[E1023] demeton to sea water	550 kg 1,4-dichlorobenzene eq."/kg
[E1024] desmetryn to sea water	5.4 kg 1,4-dichlorobenzene eq."/kg
[E1025] Di(2-ethylhexyl)phtalate to sea water	15 kg 1,4-dichlorobenzene eq."/kg
[E1026] diazinon to sea water	2800 kg 1,4-dichlorobenzene eq."/kg
[E1027] Dibutylphtalate to sea water	1.7 kg 1,4-dichlorobenzene eq."/kg
[E1028] Dichloromethane (Methylene Chloride) to sea water	0.0032 kg 1,4-dichlorobenzene eq."/kg
[E1029] dichlorprop to sea water	0.12 kg 1,4-dichlorobenzene eq."/kg
[E1030] dichlorvos to sea water	2400 kg 1,4-dichlorobenzene eq."/kg
[E1031] dieldrin to sea water	59000 kg 1,4-dichlorobenzene eq."/kg
[E1032] Diethylphtalate to sea water	0.8 kg 1,4-dichlorobenzene eq."/kg
[E1033] Dihexylphtalate to sea water	9.7 kg 1,4-dichlorobenzene eq."/kg
[E1034] Diisodecylphtalate to sea water	19 kg 1,4-dichlorobenzene eq."/kg
[E1035] Diisooctylphtalate to sea water	16 kg 1,4-dichlorobenzene eq."/kg
[E1036] dimethoate to sea water	3.4 kg 1,4-dichlorobenzene eq."/kg
[E1037] Dimethylphtalate to sea water	0.052 kg 1,4-dichlorobenzene eq."/kg
[E1038] dinoseb to sea water	13000 kg 1,4-dichlorobenzene eq."/kg
[E1039] dinoterb to sea water	12000 kg 1,4-dichlorobenzene eq."/kg
[E1040] Dioctylphtalate to sea water	2.5 kg 1,4-dichlorobenzene eq."/kg
[E1041] disulfothon to sea water	1500 kg 1,4-dichlorobenzene eq."/kg
[E1042] diuron to sea water	1500 kg 1,4-dichlorobenzene eq."/kg
[E1043] DNOC to sea water	2.6 kg 1,4-dichlorobenzene eq."/kg
[E1044] endosulfan to sea water	320 kg 1,4-dichlorobenzene eq."/kg
[E1045] endrin to sea water	2.70E+06 kg 1,4-dichlorobenzene eq."/kg
[E1046] ethoprophos to sea water	6600 kg 1,4-dichlorobenzene eq."/kg
[E1047] ethylbenzene to sea water	0.062 kg 1,4-dichlorobenzene eq."/kg
[E1048] ethylene to sea water	0.0026 kg 1,4-dichlorobenzene eq."/kg
[E1049] fenitrothion to sea water	5600 kg 1,4-dichlorobenzene eq."/kg
[E1050] fenthion to sea water	23000 kg 1,4-dichlorobenzene eq."/kg
[E1051] fentin acetate to sea water	40000 kg 1,4-dichlorobenzene eq."/kg
[E1052] fentin chloride to sea water	40000 kg 1,4-dichlorobenzene eq."/kg
[E1053] fentin hydroxide to sea water	40000 kg 1,4-dichlorobenzene eq."/kg
[E1054] fluoranthrene to sea water	4200 kg 1,4-dichlorobenzene eq."/kg

[E1055] folpet to sea water	21000 kg 1,4-dichlorobenzene eq."/kg
[E1056] Formaldehyde (methanal) to sea water	5.6 kg 1,4-dichlorobenzene eq."/kg
[E1057] glyphosate to sea water	33 kg 1,4-dichlorobenzene eq."/kg
[E1058] heptachlor to sea water	1100 kg 1,4-dichlorobenzene eq."/kg
[E1059] heptenophos to sea water	450 kg 1,4-dichlorobenzene eq."/kg
[E1060] hexachloro-1,3-butadiene to sea water	70000 kg 1,4-dichlorobenzene eq."/kg
[E1061] hexachlorobenzene to sea water	2400 kg 1,4-dichlorobenzene eq."/kg
[E1064] indeno[1,2,3-cd]pyrene to sea water	1.10E+05 kg 1,4-dichlorobenzene eq."/kg
[E1065] iprodione to sea water	0.72 kg 1,4-dichlorobenzene eq."/kg
[E1066] isoproturon to sea water	59 kg 1,4-dichlorobenzene eq."/kg
[E1067] lead to sea water	11000 kg 1,4-dichlorobenzene eq."/kg
[E1068] lindane to sea water	230 kg 1,4-dichlorobenzene eq."/kg
[E1069] linuron to sea water	1300 kg 1,4-dichlorobenzene eq."/kg
[E1070] malathion to sea water	5100 kg 1,4-dichlorobenzene eq."/kg
[E1072] MCPA to sea water	0.56 kg 1,4-dichlorobenzene eq."/kg
[E1073] mecoprop to sea water	8 kg 1,4-dichlorobenzene eq."/kg
[E1074] mercury to sea water	1.90E+06 kg 1,4-dichlorobenzene eq."/kg
[E1075] metamitron to sea water	0.49 kg 1,4-dichlorobenzene eq."/kg
[E1076] metazachlor to sea water	4.4 kg 1,4-dichlorobenzene eq."/kg
[E1077] methabenzthiazuron to sea water	48 kg 1,4-dichlorobenzene eq."/kg
[E1078] methomyl to sea water	6900 kg 1,4-dichlorobenzene eq."/kg
[E1079] methylbromide to sea water	2.4 kg 1,4-dichlorobenzene eq."/kg
[E1080] methyl-mercury to sea water	4.30E+07 kg 1,4-dichlorobenzene eq."/kg
[E1081] metobromuron to sea water	73 kg 1,4-dichlorobenzene eq."/kg
[E1082] metolachlor to sea water	1300 kg 1,4-dichlorobenzene eq."/kg
[E1083] mevinphos to sea water	11000 kg 1,4-dichlorobenzene eq."/kg
[E1084] molybdenum to sea water	2.60E+06 kg 1,4-dichlorobenzene eq."/kg
[E1085] m-xylene to sea water	0.14 kg 1,4-dichlorobenzene eq."/kg
[E1086] naphtalene to sea water	33 kg 1,4-dichlorobenzene eq."/kg
[E1087] nickel to sea water	5.80E+06 kg 1,4-dichlorobenzene eq."/kg
[E1093] oxamyl to sea water	2.8 kg 1,4-dichlorobenzene eq."/kg
[E1094] oxydemethon-methyl to sea water	1000 kg 1,4-dichlorobenzene eq."/kg
[E1095] o-xylene to sea water	0.13 kg 1,4-dichlorobenzene eq."/kg
[E1096] parathion-ethyl to sea water	41000 kg 1,4-dichlorobenzene eq."/kg
[E1097] parathion-methyl to sea water	8100 kg 1,4-dichlorobenzene eq."/kg
[E1098] pentachlorobenzene to sea water	170 kg 1,4-dichlorobenzene eq."/kg
[E1099] pentachloronitrobenzene to sea water	5600 kg 1,4-dichlorobenzene eq."/kg
[E1100] pentachlorophenol to sea water	78 kg 1,4-dichlorobenzene eq."/kg
[E1101] permethrin to sea water	2.80E+05 kg 1,4-dichlorobenzene eq."/kg
[E1102] phenanthrene to sea water	74 kg 1,4-dichlorobenzene eq."/kg
[E1103] phenol to sea water	4.7 kg 1,4-dichlorobenzene eq."/kg
[E1106] phoxim to sea water	300 kg 1,4-dichlorobenzene eq."/kg
[E1107] Phtalic anhydride to sea water	0.017 kg 1,4-dichlorobenzene eq."/kg
[E1108] pirimicarb to sea water	860 kg 1,4-dichlorobenzene eq."/kg
[E1110] propachlor to sea water	27 kg 1,4-dichlorobenzene eq."/kg
[E1111] propoxur to sea water	3400 kg 1,4-dichlorobenzene eq."/kg
[E1112] propylene oxide to sea water	0.15 kg 1,4-dichlorobenzene eq."/kg
[E1113] p-xylene to sea water	0.13 kg 1,4-dichlorobenzene eq."/kg
[E1114] pyrazophos to sea water	1100 kg 1,4-dichlorobenzene eq."/kg
[E1115] selenium to sea water	2.90E+07 kg 1,4-dichlorobenzene eq."/kg
[E1116] simazine to sea water	670 kg 1,4-dichlorobenzene eq."/kg
[E1117] styrene (vinylbenzene) to sea water	0.12 kg 1,4-dichlorobenzene eq."/kg
[E1120] tetrachloroethylene (PER) to sea water	0.65 kg 1,4-dichlorobenzene eq."/kg
[E1121] Tetrachloromethane (carbon tetrachloride) (HC-10) to sea water	1.1 kg 1,4-dichlorobenzene eq."/kg
[E1122] thallium to sea water	3.60E+07 kg 1,4-dichlorobenzene eq."/kg
[E1123] Thiram to sea water	420 kg 1,4-dichlorobenzene eq."/kg
[E1124] tin to sea water	12000 kg 1,4-dichlorobenzene eq."/kg
[E1125] tolclophos-methyl to sea water	140 kg 1,4-dichlorobenzene eq."/kg
[E1126] toluene to sea water	0.051 kg 1,4-dichlorobenzene eq."/kg
[E1127] tri-allate to sea water	3300 kg 1,4-dichlorobenzene eq."/kg
[E1128] triazophos to sea water	4900 kg 1,4-dichlorobenzene eq."/kg
[E1129] tributyltinoxide to sea water	5.70E+05 kg 1,4-dichlorobenzene eq."/kg
[E1130] trichlorfon to sea water	3600 kg 1,4-dichlorobenzene eq."/kg
[E1131] Trichloroethylene (tri) to sea water	0.057 kg 1,4-dichlorobenzene eq."/kg
[E1132] Trichloromethane=chloroform to sea water	0.056 kg 1,4-dichlorobenzene eq."/kg
[E1133] trifluarin to sea water	8300 kg 1,4-dichlorobenzene eq."/kg
[E1134] vanadium to sea water	1.80E+07 kg 1,4-dichlorobenzene eq."/kg

[E1135] Vinyl Chloride (chloroethene) to sea water	0.02 kg 1,4-dichlorobenzene eq."/kg
[E1136] zinc to sea water	1.10E+05 kg 1,4-dichlorobenzene eq."/kg
[E1137] zineb to sea water	810 kg 1,4-dichlorobenzene eq."/kg
[E1138] 1,1,1-trichloroethane to sea water	0.31 kg 1,4-dichlorobenzene eq."/kg
[E1139] 1,2,3,4-tetrachlorobenzene to sea water	0.39 kg 1,4-dichlorobenzene eq."/kg
[E1140] 1,2,3,5-tetrachlorobenzene to sea water	2.3 kg 1,4-dichlorobenzene eq."/kg
[E1141] 1,2,3-trichlorobenzene to sea water	0.65 kg 1,4-dichlorobenzene eq."/kg
[E1142] 1,2,4,5-tetrachlorobenzene to sea water	0.51 kg 1,4-dichlorobenzene eq."/kg
[E1143] 1,2,4-trichlorobenzene to sea water	0.43 kg 1,4-dichlorobenzene eq."/kg
[E1144] 1,2-dichlorobenzene to sea water	0.51 kg 1,4-dichlorobenzene eq."/kg
[E1145] 1,2-dichloroethane to sea water	0.059 kg 1,4-dichlorobenzene eq."/kg
[E1146] 1,3,5-trichlorobenzene to sea water	1.1 kg 1,4-dichlorobenzene eq."/kg
[E1147] 1,3-butadiene to sea water	2.90E-06 kg 1,4-dichlorobenzene eq."/kg
[E1148] 1,3-dichlorobenzene to sea water	0.37 kg 1,4-dichlorobenzene eq."/kg
[E1149] 1,4-dichlorobenzene to sea water	0.55 kg 1,4-dichlorobenzene eq."/kg
[E1150] 1-chloro-4-nitrobenzene to sea water	120 kg 1,4-dichlorobenzene eq."/kg
[E1151] 2,3,4,6-tetrachlorophenol to sea water	0.62 kg 1,4-dichlorobenzene eq."/kg
[E1152] 2,3,7,8-TCDD to sea water	45000 kg 1,4-dichlorobenzene eq."/kg
[E1153] 2,4,5-T to sea water	0.0016 kg 1,4-dichlorobenzene eq."/kg
[E1154] 2,4,5-trichlorophenol to sea water	1.3 kg 1,4-dichlorobenzene eq."/kg
[E1155] 2,4,6-trichlorophenol to agricultural soil	0.0082 kg 1,4-dichlorobenzene eq."/kg
[E1156] 2,4-D to agricultural soil	0.17 kg 1,4-dichlorobenzene eq."/kg
[E1157] 2,4-dichlorophenol to agricultural soil	0.007 kg 1,4-dichlorobenzene eq."/kg
[E1158] 2-chlorophenol to agricultural soil	0.068 kg 1,4-dichlorobenzene eq."/kg
[E1159] 3,4-dichloroaniline to agricultural soil	270 kg 1,4-dichlorobenzene eq."/kg
[E1160] 3-chloroaniline to agricultural soil	0.32 kg 1,4-dichlorobenzene eq."/kg
[E1161] 4-chloroaniline to agricultural soil	0.77 kg 1,4-dichlorobenzene eq."/kg
[E1162] acephate to agricultural soil	0.67 kg 1,4-dichlorobenzene eq."/kg
[E1163] Acrolein (2-propenal) to agricultural soil	250 kg 1,4-dichlorobenzene eq."/kg
[E1164] acrylonitrile to agricultural soil	0.21 kg 1,4-dichlorobenzene eq."/kg
[E1165] aldicarb to agricultural soil	1600 kg 1,4-dichlorobenzene eq."/kg
[E1166] aldrin to agricultural soil	32 kg 1,4-dichlorobenzene eq."/kg
[E1168] anilazine to agricultural soil	5.00E-05 kg 1,4-dichlorobenzene eq."/kg
[E1169] anthracene to agricultural soil	6.2 kg 1,4-dichlorobenzene eq."/kg
[E1170] antimony to agricultural soil	14000 kg 1,4-dichlorobenzene eq."/kg
[E1171] arsenic to agricultural soil	77000 kg 1,4-dichlorobenzene eq."/kg
[E1172] atrazine to agricultural soil	34 kg 1,4-dichlorobenzene eq."/kg
[E1173] azinphos-ethyl to agricultural soil	110 kg 1,4-dichlorobenzene eq."/kg
[E1174] azinphos-methyl to agricultural soil	0.14 kg 1,4-dichlorobenzene eq."/kg
[E1175] barium to agricultural soil	4.20E+05 kg 1,4-dichlorobenzene eq."/kg
[E1176] benomyl to agricultural soil	0.0058 kg 1,4-dichlorobenzene eq."/kg
[E1177] bentazone to agricultural soil	0.036 kg 1,4-dichlorobenzene eq."/kg
[E1178] benzene to agricultural soil	0.0024 kg 1,4-dichlorobenzene eq."/kg
[E1179] benzo[a]anthracene to agricultural soil	4.5 kg 1,4-dichlorobenzene eq."/kg
[E1180] benzo[a]pyrene to agricultural soil	6.5 kg 1,4-dichlorobenzene eq."/kg
[E1181] benzo[ghi]perylene to agricultural soil	11 kg 1,4-dichlorobenzene eq."/kg
[E1182] benzo[k]fluoranthrene to agricultural soil	2000 kg 1,4-dichlorobenzene eq."/kg
[E1183] benzylchloride to agricultural soil	0.082 kg 1,4-dichlorobenzene eq."/kg
[E1184] beryllium to agricultural soil	2.70E+08 kg 1,4-dichlorobenzene eq."/kg
[E1185] bifenthrin to agricultural soil	0.11 kg 1,4-dichlorobenzene eq."/kg
[E1186] Butylbenzylphtalate to agricultural soil	2.90E-05 kg 1,4-dichlorobenzene eq."/kg
[E1187] cadmium to agricultural soil	1.10E+05 kg 1,4-dichlorobenzene eq."/kg
[E1188] captafol to agricultural soil	4000 kg 1,4-dichlorobenzene eq."/kg
[E1189] captan to agricultural soil	6.90E-05 kg 1,4-dichlorobenzene eq."/kg
[E1190] carbaryl to agricultural soil	0.0074 kg 1,4-dichlorobenzene eq."/kg
[E1191] carbendazim to agricultural soil	30 kg 1,4-dichlorobenzene eq."/kg
[E1192] carbofuran to agricultural soil	2 kg 1,4-dichlorobenzene eq."/kg
[E1193] carbon disulfide to agricultural soil	1.4 kg 1,4-dichlorobenzene eq."/kg
[E1194] Carcinogenic PAHs to agricultural soil	12 kg 1,4-dichlorobenzene eq."/kg
[E1195] chlordane to agricultural soil	30 kg 1,4-dichlorobenzene eq."/kg
[E1196] chlorfenvinphos to agricultural soil	0.085 kg 1,4-dichlorobenzene eq."/kg
[E1197] chloridazon to agricultural soil	0.081 kg 1,4-dichlorobenzene eq."/kg
[E1198] chlorobenzene to agricultural soil	0.083 kg 1,4-dichlorobenzene eq."/kg
[E1199] chlorothalonil to agricultural soil	1.7 kg 1,4-dichlorobenzene eq."/kg
[E1200] chlorpropham to agricultural soil	0.0084 kg 1,4-dichlorobenzene eq."/kg
[E1201] chlorpyriphos to agricultural soil	0.14 kg 1,4-dichlorobenzene eq."/kg
[E1202] chromium III to agricultural soil	650 kg 1,4-dichlorobenzene eq."/kg

[E1203] chromium VI to agricultural soil	2600 kg 1,4-dichlorobenzene eq."/kg
[E1204] chrysene to agricultural soil	12 kg 1,4-dichlorobenzene eq."/kg
[E1205] cobalt to agricultural soil	2.20E+06 kg 1,4-dichlorobenzene eq."/kg
[E1206] copper to agricultural soil	1.20E+05 kg 1,4-dichlorobenzene eq."/kg
[E1207] coumaphos to agricultural soil	1.50E+05 kg 1,4-dichlorobenzene eq."/kg
[E1208] cyanazine to agricultural soil	2.8 kg 1,4-dichlorobenzene eq."/kg
[E1209] cypermethrin to agricultural soil	300 kg 1,4-dichlorobenzene eq."/kg
[E1210] cyromazine to agricultural soil	250 kg 1,4-dichlorobenzene eq."/kg
[E1211] DDT to agricultural soil	43 kg 1,4-dichlorobenzene eq."/kg
[E1212] deltamethrin to agricultural soil	0.06 kg 1,4-dichlorobenzene eq."/kg
[E1213] demeton to agricultural soil	3.5 kg 1,4-dichlorobenzene eq."/kg
[E1214] desmetryn to agricultural soil	0.024 kg 1,4-dichlorobenzene eq."/kg
[E1215] Di(2-ethylhexyl)phtalate to agricultural soil	1.60E-05 kg 1,4-dichlorobenzene eq."/kg
[E1216] diazinon to agricultural soil	7.8 kg 1,4-dichlorobenzene eq."/kg
[E1217] Dibutylphtalate to agricultural soil	0.00012 kg 1,4-dichlorobenzene eq."/kg
[E1218] Dichloromethane (Methylene Chloride) to agricultural soil	0.0025 kg 1,4-dichlorobenzene eq."/kg
[E1219] dichlorprop to agricultural soil	3.60E-05 kg 1,4-dichlorobenzene eq."/kg
[E1220] dichlorvos to agricultural soil	0.041 kg 1,4-dichlorobenzene eq."/kg
[E1221] dieldrin to agricultural soil	81 kg 1,4-dichlorobenzene eq."/kg
[E1222] Diethylphtalate to agricultural soil	0.00071 kg 1,4-dichlorobenzene eq."/kg
[E1223] Dihexylphtalate to agricultural soil	0.00043 kg 1,4-dichlorobenzene eq."/kg
[E1224] Diisodecylphtalate to agricultural soil	0.00086 kg 1,4-dichlorobenzene eq."/kg
[E1225] Diisooctylphtalate to agricultural soil	6.50E-05 kg 1,4-dichlorobenzene eq."/kg
[E1226] dimethoate to agricultural soil	0.039 kg 1,4-dichlorobenzene eq."/kg
[E1227] Dimethylphtalate to agricultural soil	9.70E-06 kg 1,4-dichlorobenzene eq."/kg
[E1228] dinoseb to agricultural soil	390 kg 1,4-dichlorobenzene eq."/kg
[E1229] dinoterb to agricultural soil	8.7 kg 1,4-dichlorobenzene eq."/kg
[E1230] Dioctylphtalate to agricultural soil	1.30E-06 kg 1,4-dichlorobenzene eq."/kg
[E1231] disulfothon to agricultural soil	0.14 kg 1,4-dichlorobenzene eq."/kg
[E1232] diuron to agricultural soil	0.14 kg 1,4-dichlorobenzene eq."/kg
[E1233] DNOC to agricultural soil	0.0036 kg 1,4-dichlorobenzene eq."/kg
[E1234] endosulfan to agricultural soil	0.0014 kg 1,4-dichlorobenzene eq."/kg
[E1235] endrin to agricultural soil	10000 kg 1,4-dichlorobenzene eq."/kg
[E1236] ethoprophos to agricultural soil	260 kg 1,4-dichlorobenzene eq."/kg
[E1237] ethylbenzene to agricultural soil	0.00041 kg 1,4-dichlorobenzene eq."/kg
[E1238] ethylene to agricultural soil	7.80E-11 kg 1,4-dichlorobenzene eq."/kg
[E1239] fenitrothion to agricultural soil	2.3 kg 1,4-dichlorobenzene eq."/kg
[E1240] fenthion to agricultural soil	15 kg 1,4-dichlorobenzene eq."/kg
[E1241] fentin acetate to agricultural soil	6.8 kg 1,4-dichlorobenzene eq."/kg
[E1242] fentin chloride to agricultural soil	95 kg 1,4-dichlorobenzene eq."/kg
[E1243] fentin hydroxide to agricultural soil	6.1 kg 1,4-dichlorobenzene eq."/kg
[E1244] fluoranthrene to agricultural soil	1.3 kg 1,4-dichlorobenzene eq."/kg
[E1245] folpet to agricultural soil	710 kg 1,4-dichlorobenzene eq."/kg
[E1246] Formaldehyde (methanal) to agricultural soil	0.018 kg 1,4-dichlorobenzene eq."/kg
[E1247] glyphosate to agricultural soil	0.0028 kg 1,4-dichlorobenzene eq."/kg
[E1248] heptachlor to agricultural soil	0.024 kg 1,4-dichlorobenzene eq."/kg
[E1249] heptenophos to agricultural soil	0.026 kg 1,4-dichlorobenzene eq."/kg
[E1250] hexachloro-1,3-butadiene to agricultural soil	28000 kg 1,4-dichlorobenzene eq."/kg
[E1251] hexachlorobenzene to agricultural soil	720 kg 1,4-dichlorobenzene eq."/kg
[E1254] indeno[1,2,3-cd]pyrene to agricultural soil	17 kg 1,4-dichlorobenzene eq."/kg
[E1255] iprodione to agricultural soil	2.20E-05 kg 1,4-dichlorobenzene eq."/kg
[E1256] isoproturon to agricultural soil	1.8 kg 1,4-dichlorobenzene eq."/kg
[E1257] lead to agricultural soil	750 kg 1,4-dichlorobenzene eq."/kg
[E1258] lindane to agricultural soil	1.4 kg 1,4-dichlorobenzene eq."/kg
[E1259] linuron to agricultural soil	12 kg 1,4-dichlorobenzene eq."/kg
[E1260] malathion to agricultural soil	0.66 kg 1,4-dichlorobenzene eq."/kg
[E1261] MCPA to agricultural soil	0.00062 kg 1,4-dichlorobenzene eq."/kg
[E1262] mecoprop to agricultural soil	0.053 kg 1,4-dichlorobenzene eq."/kg
[E1263] mercury to agricultural soil	1.70E+05 kg 1,4-dichlorobenzene eq."/kg
[E1264] metamitron to agricultural soil	0.0011 kg 1,4-dichlorobenzene eq."/kg
[E1265] metazachlor to agricultural soil	0.033 kg 1,4-dichlorobenzene eq."/kg
[E1266] methabenzthiazuron to agricultural soil	1 kg 1,4-dichlorobenzene eq."/kg
[E1267] methomyl to agricultural soil	440 kg 1,4-dichlorobenzene eq."/kg
[E1268] methylbromide to agricultural soil	3.1 kg 1,4-dichlorobenzene eq."/kg
[E1269] methyl-mercury to agricultural soil	3.80E+06 kg 1,4-dichlorobenzene eq."/kg
[E1270] metobromuron to agricultural soil	14 kg 1,4-dichlorobenzene eq."/kg
[E1271] metolachlor to agricultural soil	30 kg 1,4-dichlorobenzene eq."/kg

[E1272] mevinphos to agricultural soil	0.34 kg 1,4-dichlorobenzene eq."/kg
[E1273] molybdenum to agricultural soil	1.20E+06 kg 1,4-dichlorobenzene eq."/kg
[E1274] m-xylene to agricultural soil	0.00025 kg 1,4-dichlorobenzene eq."/kg
[E1275] naphtalene to agricultural soil	0.057 kg 1,4-dichlorobenzene eq."/kg
[E1276] nickel to agricultural soil	1.20E+06 kg 1,4-dichlorobenzene eq."/kg
[E1278] oxamyl to agricultural soil	0.0084 kg 1,4-dichlorobenzene eq."/kg
[E1279] oxydemethon-methyl to agricultural soil	2 kg 1,4-dichlorobenzene eq."/kg
[E1280] o-xylene to agricultural soil	0.00055 kg 1,4-dichlorobenzene eq."/kg
[E1281] parathion-ethyl to agricultural soil	2.3 kg 1,4-dichlorobenzene eq."/kg
[E1282] parathion-methyl to agricultural soil	5.9 kg 1,4-dichlorobenzene eq."/kg
[E1283] pentachlorobenzene to agricultural soil	28 kg 1,4-dichlorobenzene eq."/kg
[E1284] pentachloronitrobenzene to agricultural soil	30 kg 1,4-dichlorobenzene eq."/kg
[E1285] pentachlorophenol to agricultural soil	0.0059 kg 1,4-dichlorobenzene eq."/kg
[E1286] permethrin to agricultural soil	5.5 kg 1,4-dichlorobenzene eq."/kg
[E1287] phenanthrene to agricultural soil	0.0087 kg 1,4-dichlorobenzene eq."/kg
[E1288] phenol to agricultural soil	0.0017 kg 1,4-dichlorobenzene eq."/kg
[E1289] phoxim to agricultural soil	0.31 kg 1,4-dichlorobenzene eq."/kg
[E1290] Phtalic anhydride to agricultural soil	1.80E-08 kg 1,4-dichlorobenzene eq."/kg
[E1291] pirimicarb to agricultural soil	7.3 kg 1,4-dichlorobenzene eq."/kg
[E1293] propachlor to agricultural soil	0.042 kg 1,4-dichlorobenzene eq."/kg
[E1294] propoxur to agricultural soil	39 kg 1,4-dichlorobenzene eq."/kg
[E1295] propylene oxide to agricultural soil	0.033 kg 1,4-dichlorobenzene eq."/kg
[E1296] p-xylene to agricultural soil	0.00032 kg 1,4-dichlorobenzene eq."/kg
[E1297] pyrazophos to agricultural soil	0.68 kg 1,4-dichlorobenzene eq."/kg
[E1298] selenium to agricultural soil	1.30E+07 kg 1,4-dichlorobenzene eq."/kg
[E1299] simazine to agricultural soil	13 kg 1,4-dichlorobenzene eq."/kg
[E1300] styrene (vinylbenzene) to agricultural soil	0.00011 kg 1,4-dichlorobenzene eq."/kg
[E1302] tetrachloroethylene (PER) to agricultural soil	0.31 kg 1,4-dichlorobenzene eq."/kg
[E1303] Tetrachloromethane (carbon tetrachloride) (HC-10) to agricultural soil	1.1 kg 1,4-dichlorobenzene eq."/kg
[E1304] thallium to agricultural soil	1.40E+07 kg 1,4-dichlorobenzene eq."/kg
[E1305] Thiram to agricultural soil	0.7 kg 1,4-dichlorobenzene eq."/kg
[E1306] tin to agricultural soil	830 kg 1,4-dichlorobenzene eq."/kg
[E1307] tolclophos-methyl to agricultural soil	0.13 kg 1,4-dichlorobenzene eq."/kg
[E1308] toluene to agricultural soil	0.00045 kg 1,4-dichlorobenzene eq."/kg
[E1309] tri-allate to agricultural soil	0.84 kg 1,4-dichlorobenzene eq."/kg
[E1310] triazophos to agricultural soil	53 kg 1,4-dichlorobenzene eq."/kg
[E1311] tributyltinoxide to agricultural soil	560 kg 1,4-dichlorobenzene eq."/kg
[E1312] trichlorfon to agricultural soil	0.67 kg 1,4-dichlorobenzene eq."/kg
[E1313] Trichloroethylene (tri) to agricultural soil	0.0025 kg 1,4-dichlorobenzene eq."/kg
[E1314] Trichloromethane=chloroform to agricultural soil	0.047 kg 1,4-dichlorobenzene eq."/kg
[E1315] trifluarin to agricultural soil	1.2 kg 1,4-dichlorobenzene eq."/kg
[E1316] vanadium to agricultural soil	4.50E+06 kg 1,4-dichlorobenzene eq."/kg
[E1317] Vinyl Chloride (chloroethene) to agricultural soil	0.00013 kg 1,4-dichlorobenzene eq."/kg
[E1318] zinc to agricultural soil	7200 kg 1,4-dichlorobenzene eq."/kg
[E1319] zineb to agricultural soil	3.5 kg 1,4-dichlorobenzene eq."/kg
[E1320] 1,1,1-trichloroethane to agricultural soil	0.31 kg 1,4-dichlorobenzene eq."/kg
[E1321] 1,2,3,4-tetrachlorobenzene to agricultural soil	1.5 kg 1,4-dichlorobenzene eq."/kg
[E1322] 1,2,3,5-tetrachlorobenzene to agricultural soil	5.1 kg 1,4-dichlorobenzene eq."/kg
[E1323] 1,2,3-trichlorobenzene to agricultural soil	0.86 kg 1,4-dichlorobenzene eq."/kg
[E1324] 1,2,4,5-tetrachlorobenzene to agricultural soil	1.8 kg 1,4-dichlorobenzene eq."/kg
[E1325] 1,2,4-trichlorobenzene to agricultural soil	0.71 kg 1,4-dichlorobenzene eq."/kg
[E1326] 1,2-dichlorobenzene to agricultural soil	0.51 kg 1,4-dichlorobenzene eq."/kg
[E1327] 1,2-dichloroethane to agricultural soil	0.059 kg 1,4-dichlorobenzene eq."/kg
[E1328] 1,3,5-trichlorobenzene to agricultural soil	1.3 kg 1,4-dichlorobenzene eq."/kg
[E1329] 1,3-butadiene to agricultural soil	2.90E-06 kg 1,4-dichlorobenzene eq."/kg
[E1330] 1,3-dichlorobenzene to agricultural soil	0.37 kg 1,4-dichlorobenzene eq."/kg
[E1331] 1,4-dichlorobenzene to agricultural soil	0.55 kg 1,4-dichlorobenzene eq."/kg
[E1332] 1-chloro-4-nitrobenzene to agricultural soil	120 kg 1,4-dichlorobenzene eq."/kg
[E1333] 2,3,4,6-tetrachlorophenol to agricultural soil	2.5 kg 1,4-dichlorobenzene eq."/kg
[E1334] 2,3,7,8-TCDD to agricultural soil	1.80E+05 kg 1,4-dichlorobenzene eq."/kg
[E1335] 2,4,5-T to agricultural soil	0.0055 kg 1,4-dichlorobenzene eq."/kg
[E1336] 2,4,5-trichlorophenol to agricultural soil	4.6 kg 1,4-dichlorobenzene eq."/kg
[E1337] 2,4,6-trichlorophenol to industrial soil	0.032 kg 1,4-dichlorobenzene eq."/kg
[E1338] 2,4-D to industrial soil	0.46 kg 1,4-dichlorobenzene eq."/kg
[E1339] 2,4-dichlorophenol to industrial soil	0.027 kg 1,4-dichlorobenzene eq."/kg
[E1340] 2-chlorophenol to industrial soil	0.26 kg 1,4-dichlorobenzene eq."/kg
[E1341] 3,4-dichloroaniline to industrial soil	600 kg 1,4-dichlorobenzene eq."/kg

[E1342] 3-chloroaniline to industrial soil	1.2 kg 1,4-dichlorobenzene eq."/kg
[E1343] 4-chloroaniline to industrial soil	2.2 kg 1,4-dichlorobenzene eq."/kg
[E1344] acephate to industrial soil	2.1 kg 1,4-dichlorobenzene eq."/kg
[E1345] Acrolein (2-propenal) to industrial soil	250 kg 1,4-dichlorobenzene eq."/kg
[E1346] acrylonitrile to industrial soil	0.27 kg 1,4-dichlorobenzene eq."/kg
[E1347] aldicarb to industrial soil	1600 kg 1,4-dichlorobenzene eq."/kg
[E1348] aldrin to industrial soil	33 kg 1,4-dichlorobenzene eq."/kg
[E1350] anilazine to industrial soil	0.0002 kg 1,4-dichlorobenzene eq."/kg
[E1351] anthracene to industrial soil	25 kg 1,4-dichlorobenzene eq."/kg
[E1352] antimony to industrial soil	14000 kg 1,4-dichlorobenzene eq."/kg
[E1353] arsenic to industrial soil	77000 kg 1,4-dichlorobenzene eq."/kg
[E1354] atrazine to industrial soil	93 kg 1,4-dichlorobenzene eq."/kg
[E1355] azinphos-ethyl to industrial soil	14 kg 1,4-dichlorobenzene eq."/kg
[E1356] azinphos-methyl to industrial soil	0.58 kg 1,4-dichlorobenzene eq."/kg
[E1357] barium to industrial soil	4.20E+05 kg 1,4-dichlorobenzene eq."/kg
[E1358] benomyl to industrial soil	0.023 kg 1,4-dichlorobenzene eq."/kg
[E1359] bentazone to industrial soil	0.048 kg 1,4-dichlorobenzene eq."/kg
[E1360] benzene to industrial soil	0.0024 kg 1,4-dichlorobenzene eq."/kg
[E1361] benzo[a]anthracene to industrial soil	18 kg 1,4-dichlorobenzene eq."/kg
[E1362] benzo[a]pyrene to industrial soil	26 kg 1,4-dichlorobenzene eq."/kg
[E1363] benzo[ghi]perylene to industrial soil	43 kg 1,4-dichlorobenzene eq."/kg
[E1364] benzo[k]fluoranthrene to industrial soil	7800 kg 1,4-dichlorobenzene eq."/kg
[E1365] benzylchloride to industrial soil	0.29 kg 1,4-dichlorobenzene eq."/kg
[E1366] beryllium to industrial soil	2.70E+08 kg 1,4-dichlorobenzene eq."/kg
[E1367] bifenthrin to industrial soil	0.45 kg 1,4-dichlorobenzene eq."/kg
[E1368] Butylbenzylphtalate to industrial soil	0.00012 kg 1,4-dichlorobenzene eq."/kg
[E1369] cadmium to industrial soil	1.10E+05 kg 1,4-dichlorobenzene eq."/kg
[E1370] captafol to industrial soil	12000 kg 1,4-dichlorobenzene eq."/kg
[E1371] captan to industrial soil	0.00081 kg 1,4-dichlorobenzene eq."/kg
[E1372] carbaryl to industrial soil	0.04 kg 1,4-dichlorobenzene eq."/kg
[E1373] carbendazim to industrial soil	93 kg 1,4-dichlorobenzene eq."/kg
[E1374] carbofuran to industrial soil	6.2 kg 1,4-dichlorobenzene eq."/kg
[E1375] carbon disulfide to industrial soil	1.4 kg 1,4-dichlorobenzene eq."/kg
[E1376] Carcinogenic PAHs to industrial soil	48 kg 1,4-dichlorobenzene eq."/kg
[E1377] chlordane to industrial soil	120 kg 1,4-dichlorobenzene eq."/kg
[E1378] chlorfenvinphos to industrial soil	0.31 kg 1,4-dichlorobenzene eq."/kg
[E1379] chloridazon to industrial soil	0.18 kg 1,4-dichlorobenzene eq."/kg
[E1380] chlorobenzene to industrial soil	0.083 kg 1,4-dichlorobenzene eq."/kg
[E1381] chlorothalonil to industrial soil	6 kg 1,4-dichlorobenzene eq."/kg
[E1382] chlorpropham to industrial soil	0.03 kg 1,4-dichlorobenzene eq."/kg
[E1383] chlorpyriphos to industrial soil	0.58 kg 1,4-dichlorobenzene eq."/kg
[E1384] chromium III to industrial soil	650 kg 1,4-dichlorobenzene eq."/kg
[E1385] chromium VI to industrial soil	2600 kg 1,4-dichlorobenzene eq."/kg
[E1386] chrysene to industrial soil	47 kg 1,4-dichlorobenzene eq."/kg
[E1387] cobalt to industrial soil	2.20E+06 kg 1,4-dichlorobenzene eq."/kg
[E1388] copper to industrial soil	1.20E+05 kg 1,4-dichlorobenzene eq."/kg
[E1389] coumaphos to industrial soil	4.60E+05 kg 1,4-dichlorobenzene eq."/kg
[E1390] cyanazine to industrial soil	10 kg 1,4-dichlorobenzene eq."/kg
[E1391] cypermethrin to industrial soil	1000 kg 1,4-dichlorobenzene eq."/kg
[E1392] cyromazine to industrial soil	250 kg 1,4-dichlorobenzene eq."/kg
[E1393] DDT to industrial soil	170 kg 1,4-dichlorobenzene eq."/kg
[E1394] deltamethrin to industrial soil	0.24 kg 1,4-dichlorobenzene eq."/kg
[E1395] demeton to industrial soil	11 kg 1,4-dichlorobenzene eq."/kg
[E1396] desmetryn to industrial soil	0.088 kg 1,4-dichlorobenzene eq."/kg
[E1397] Di(2-ethylhexyl)phtalate to industrial soil	6.20E-05 kg 1,4-dichlorobenzene eq."/kg
[E1398] diazinon to industrial soil	27 kg 1,4-dichlorobenzene eq."/kg
[E1399] Dibutylphtalate to industrial soil	0.00048 kg 1,4-dichlorobenzene eq."/kg
[E1400] Dichloromethane (Methylene Chloride) to industrial soil	0.0025 kg 1,4-dichlorobenzene eq."/kg
[E1401] dichlorprop to industrial soil	0.00014 kg 1,4-dichlorobenzene eq."/kg
[E1402] dichlorvos to industrial soil	0.16 kg 1,4-dichlorobenzene eq."/kg
[E1403] dieldrin to industrial soil	310 kg 1,4-dichlorobenzene eq."/kg
[E1404] Diethylphtalate to industrial soil	0.0028 kg 1,4-dichlorobenzene eq."/kg
[E1405] Dihexylphtalate to industrial soil	0.0017 kg 1,4-dichlorobenzene eq."/kg
[E1406] Diisodecylphtalate to industrial soil	0.0034 kg 1,4-dichlorobenzene eq."/kg
[E1407] Diisooctylphtalate to industrial soil	0.00026 kg 1,4-dichlorobenzene eq."/kg
[E1408] dimethoate to industrial soil	0.12 kg 1,4-dichlorobenzene eq."/kg
[E1409] Dimethylphtalate to industrial soil	3.80E-05 kg 1,4-dichlorobenzene eq."/kg

[E1410] dinoseb to industrial soil	1100	kg 1,4-dichlorobenzene eq."/kg
[E1411] dinoterb to industrial soil	36	kg 1,4-dichlorobenzene eq."/kg
[E1412] Dioctylphtalate to industrial soil	5.20E-06	kg 1,4-dichlorobenzene eq."/kg
[E1413] disulfothon to industrial soil	0.56	kg 1,4-dichlorobenzene eq."/kg
[E1414] diuron to industrial soil	0.56	kg 1,4-dichlorobenzene eq."/kg
[E1415] DNOC to industrial soil	0.014	kg 1,4-dichlorobenzene eq."/kg
[E1416] endosulfan to industrial soil	0.0055	kg 1,4-dichlorobenzene eq."/kg
[E1417] endrin to industrial soil	35000	kg 1,4-dichlorobenzene eq."/kg
[E1418] ethoprophos to industrial soil	720	kg 1,4-dichlorobenzene eq."/kg
[E1419] ethylbenzene to industrial soil	0.00041	kg 1,4-dichlorobenzene eq."/kg
[E1420] ethylene to industrial soil	7.80E-11	kg 1,4-dichlorobenzene eq."/kg
[E1421] fenitrothion to industrial soil	8.9	kg 1,4-dichlorobenzene eq."/kg
[E1422] fenthion to industrial soil	57	kg 1,4-dichlorobenzene eq."/kg
[E1423] fentin acetate to industrial soil	27	kg 1,4-dichlorobenzene eq."/kg
[E1424] fentin chloride to industrial soil	370	kg 1,4-dichlorobenzene eq."/kg
[E1425] fentin hydroxide to industrial soil	24	kg 1,4-dichlorobenzene eq."/kg
[E1426] fluoranthrene to industrial soil	5.3	kg 1,4-dichlorobenzene eq."/kg
[E1427] folpet to industrial soil	2100	kg 1,4-dichlorobenzene eq."/kg
[E1428] Formaldehyde (methanal) to industrial soil	0.055	kg 1,4-dichlorobenzene eq."/kg
[E1429] glyphosate to industrial soil	0.011	kg 1,4-dichlorobenzene eq."/kg
[E1430] heptachlor to industrial soil	0.095	kg 1,4-dichlorobenzene eq."/kg
[E1431] heptenophos to industrial soil	0.1	kg 1,4-dichlorobenzene eq."/kg
[E1432] hexachloro-1,3-butadiene to industrial soil	34000	kg 1,4-dichlorobenzene eq."/kg
[E1433] hexachlorobenzene to industrial soil	960	kg 1,4-dichlorobenzene eq."/kg
[E1436] indeno[1,2,3-cd]pyrene to industrial soil	68	kg 1,4-dichlorobenzene eq."/kg
[E1437] iprodione to industrial soil	0.00018	kg 1,4-dichlorobenzene eq."/kg
[E1438] isoproturon to industrial soil	4.2	kg 1,4-dichlorobenzene eq."/kg
[E1439] lead to industrial soil	750	kg 1,4-dichlorobenzene eq."/kg
[E1440] lindane to industrial soil	5.3	kg 1,4-dichlorobenzene eq."/kg
[E1441] linuron to industrial soil	44	kg 1,4-dichlorobenzene eq."/kg
[E1442] malathion to industrial soil	2.6	kg 1,4-dichlorobenzene eq."/kg
[E1443] MCPA to industrial soil	0.0022	kg 1,4-dichlorobenzene eq."/kg
[E1444] mecoprop to industrial soil	0.14	kg 1,4-dichlorobenzene eq."/kg
[E1445] mercury to industrial soil	1.70E+05	kg 1,4-dichlorobenzene eq."/kg
[E1446] metamitron to industrial soil	0.0041	kg 1,4-dichlorobenzene eq."/kg
[E1447] metazachlor to industrial soil	0.11	kg 1,4-dichlorobenzene eq."/kg
[E1448] methabenzthiazuron to industrial soil	3.2	kg 1,4-dichlorobenzene eq."/kg
[E1449] methomyl to industrial soil	890	kg 1,4-dichlorobenzene eq."/kg
[E1450] methylbromide to industrial soil	3.1	kg 1,4-dichlorobenzene eq."/kg
[E1451] methyl-mercury to industrial soil	3.80E+06	kg 1,4-dichlorobenzene eq."/kg
[E1452] metobromuron to industrial soil	14	kg 1,4-dichlorobenzene eq."/kg
[E1453] metolachlor to industrial soil	91	kg 1,4-dichlorobenzene eq."/kg
[E1454] mevinphos to industrial soil	1.4	kg 1,4-dichlorobenzene eq."/kg
[E1455] molybdenum to industrial soil	1.20E+06	kg 1,4-dichlorobenzene eq."/kg
[E1456] m-xylene to industrial soil	0.00025	kg 1,4-dichlorobenzene eq."/kg
[E1457] naphtalene to industrial soil	0.19	kg 1,4-dichlorobenzene eq."/kg
[E1458] nickel to industrial soil	1.20E+06	kg 1,4-dichlorobenzene eq."/kg
[E1460] oxamyl to industrial soil	0.034	kg 1,4-dichlorobenzene eq."/kg
[E1461] oxydemethon-methyl to industrial soil	7.3	kg 1,4-dichlorobenzene eq."/kg
[E1462] o-xylene to industrial soil	0.00055	kg 1,4-dichlorobenzene eq."/kg
[E1463] parathion-ethyl to industrial soil	9.2	kg 1,4-dichlorobenzene eq."/kg
[E1464] parathion-methyl to industrial soil	23	kg 1,4-dichlorobenzene eq."/kg
[E1465] pentachlorobenzene to industrial soil	54	kg 1,4-dichlorobenzene eq."/kg
[E1466] pentachloronitrobenzene to industrial soil	120	kg 1,4-dichlorobenzene eq."/kg
[E1467] pentachlorophenol to industrial soil	0.027	kg 1,4-dichlorobenzene eq."/kg
[E1468] permethrin to industrial soil	22	kg 1,4-dichlorobenzene eq."/kg
[E1469] phenanthrene to industrial soil	0.035	kg 1,4-dichlorobenzene eq."/kg
[E1470] phenol to industrial soil	0.0061	kg 1,4-dichlorobenzene eq."/kg
[E1471] phoxim to industrial soil	0.55	kg 1,4-dichlorobenzene eq."/kg
[E1472] Phtalic anhydride to industrial soil	1.20E-08	kg 1,4-dichlorobenzene eq."/kg
[E1473] pirimicarb to industrial soil	23	kg 1,4-dichlorobenzene eq."/kg
[E1475] propachlor to industrial soil	0.16	kg 1,4-dichlorobenzene eq."/kg
[E1476] propoxur to industrial soil	100	kg 1,4-dichlorobenzene eq."/kg
[E1477] propylene oxide to industrial soil	0.037	kg 1,4-dichlorobenzene eq."/kg
[E1478] p-xylene to industrial soil	0.00032	kg 1,4-dichlorobenzene eq."/kg
[E1479] pyrazophos to industrial soil	2.6	kg 1,4-dichlorobenzene eq."/kg
[E1480] selenium to industrial soil	1.30E+07	kg 1,4-dichlorobenzene eq."/kg

[E1481] simazine to industrial soil	31	kg 1,4-dichlorobenzene eq."/kg
[E1482] styrene (vinylbenzene) to industrial soil	0.00018	kg 1,4-dichlorobenzene eq."/kg
[E1484] tetrachloroethylene (PER) to industrial soil	0.00056	kg 1,4-dichlorobenzene eq."/kg
[E1485] Tetrachloromethane (carbon tetrachloride) (HC-10) to industrial soil	1.1	kg 1,4-dichlorobenzene eq."/kg
[E1486] thallium to industrial soil	1.40E+07	kg 1,4-dichlorobenzene eq."/kg
[E1487] Thiram to industrial soil	4.5	kg 1,4-dichlorobenzene eq."/kg
[E1488] tin to industrial soil	830	kg 1,4-dichlorobenzene eq."/kg
[E1489] tolclophos-methyl to industrial soil	0.39	kg 1,4-dichlorobenzene eq."/kg
[E1490] toluene to industrial soil	0.00045	kg 1,4-dichlorobenzene eq."/kg
[E1491] tri-allate to industrial soil	3.4	kg 1,4-dichlorobenzene eq."/kg
[E1492] triazophos to industrial soil	170	kg 1,4-dichlorobenzene eq."/kg
[E1493] tributyltinoxide to industrial soil	2200	kg 1,4-dichlorobenzene eq."/kg
[E1494] trichlorfon to industrial soil	3.7	kg 1,4-dichlorobenzene eq."/kg
[E1495] Trichloroethylene (tri) to industrial soil	0.0025	kg 1,4-dichlorobenzene eq."/kg
[E1496] Trichloromethane=chloroform to industrial soil	0.047	kg 1,4-dichlorobenzene eq."/kg
[E1497] trifluarin to industrial soil	4.5	kg 1,4-dichlorobenzene eq."/kg
[E1498] vanadium to industrial soil	4.50E+06	kg 1,4-dichlorobenzene eq."/kg
[E1499] Vinyl Chloride (chloroethene) to industrial soil	0.00013	kg 1,4-dichlorobenzene eq."/kg
[E1500] zinc to industrial soil	7200	kg 1,4-dichlorobenzene eq."/kg
[E1501] zineb to industrial soil	13	kg 1,4-dichlorobenzene eq."/kg

Category = [C8] Sediment ecotoxicity fresh water
Description = Problem oriented approach, manual 1999; SETP
Author = anonymous
Date = 1/18/00

Environmental resources

Environmental resource	Value	Unit

Environmental emissions

Environmental emission	Value	Unit
[E90] 1,1,1-trichloroethane (methyl chloroform; HC-140a) to air	0.0001	kg 1,4-dichlorobenzene eq."/kg
[E94] 1,2,3,4-tetrachlorobenzene to air	0.12	kg 1,4-dichlorobenzene eq."/kg
[E95] 1,2,3,5-tetrachlorobenzene to air	0.081	kg 1,4-dichlorobenzene eq."/kg
[E96] 1,2,3-trichlorobenzene to air	0.0093	kg 1,4-dichlorobenzene eq."/kg
[E98] 1,2,4,5-tetrachlorobenzene to air	0.085	kg 1,4-dichlorobenzene eq."/kg
[E99] 1,2,4-trichlorobenzene to air	0.011	kg 1,4-dichlorobenzene eq."/kg
[E102] 1,2-dichlorobenzene to air	0.0027	kg 1,4-dichlorobenzene eq."/kg
[E103] 1,2-dichloroethane to air	0.0001	kg 1,4-dichlorobenzene eq."/kg
[E107] 1,3,5-trichlorobenzene to air	0.017	kg 1,4-dichlorobenzene eq."/kg
[E111] 1,3-Butadiene to air	2.20E-07	kg 1,4-dichlorobenzene eq."/kg
[E112] 1,3-dichlorobenzene to air	0.0022	kg 1,4-dichlorobenzene eq."/kg
[E116] 1,4-dichlorobenzene to air	0.0024	kg 1,4-dichlorobenzene eq."/kg
[E128] 1-chloro-4-nitrobenzene to air	10	kg 1,4-dichlorobenzene eq."/kg
[E166] 2,3,4,6-tetrachlorophenol to air	87	kg 1,4-dichlorobenzene eq."/kg
[E168] 2,3,7,8-TCDD (tetrachloride-dibenzo-dioxin) to air	6.80E+06	kg 1,4-dichlorobenzene eq."/kg
[E172] 2,4,5-T to air	0.61	kg 1,4-dichlorobenzene eq."/kg
[E173] 2,4,5-trichlorophenol to air	17	kg 1,4-dichlorobenzene eq."/kg
[E174] 2,4,6-trichlorophenol to air	5.7	kg 1,4-dichlorobenzene eq."/kg
[E175] 2,4-D to air	29	kg 1,4-dichlorobenzene eq."/kg
[E176] 2,4-dichlorophenol to air	0.55	kg 1,4-dichlorobenzene eq."/kg
[E185] 2-chlorophenol to air	10	kg 1,4-dichlorobenzene eq."/kg
[E208] 3,4-dichloroaniline to air	2100	kg 1,4-dichlorobenzene eq."/kg
[E217] 3-chloroaniline to air	93	kg 1,4-dichlorobenzene eq."/kg
[E228] 4-chloroaniline to air	1.8	kg 1,4-dichlorobenzene eq."/kg
[E231] acephate to air	40	kg 1,4-dichlorobenzene eq."/kg
[E236] Acrolein (2-propenal) to air	390	kg 1,4-dichlorobenzene eq."/kg
[E237] Acrylonitrile to air	0.27	kg 1,4-dichlorobenzene eq."/kg
[E241] aldicarb to air	41000	kg 1,4-dichlorobenzene eq."/kg
[E242] aldrin to air	0.24	kg 1,4-dichlorobenzene eq."/kg
[E251] anilazine to air	0.88	kg 1,4-dichlorobenzene eq."/kg
[E252] anthracene to air	190	kg 1,4-dichlorobenzene eq."/kg
[E253] antimony to air	9.1	kg 1,4-dichlorobenzene eq."/kg
[E255] arsenic to air	130	kg 1,4-dichlorobenzene eq."/kg
[E256] atrazine to air	310	kg 1,4-dichlorobenzene eq."/kg
[E257] azinphos-ethyl to air	210	kg 1,4-dichlorobenzene eq."/kg

[E258] azinphos-methyl to air	220 kg 1,4-dichlorobenzene eq."/kg
[E259] barium to air	97 kg 1,4-dichlorobenzene eq."/kg
[E260] benomyl to air	3.9 kg 1,4-dichlorobenzene eq."/kg
[E261] bentazone to air	4.5 kg 1,4-dichlorobenzene eq."/kg
[E263] Benzene to air	6.40E-05 kg 1,4-dichlorobenzene eq."/kg
[E264] benzo[a]anthracene to air	130 kg 1,4-dichlorobenzene eq."/kg
[E265] benzo[a]pyrene to air	250 kg 1,4-dichlorobenzene eq."/kg
[E266] benzo[ghi]perylene to air	140 kg 1,4-dichlorobenzene eq."/kg
[E267] benzo[k]fluoranthrene to air	13000 kg 1,4-dichlorobenzene eq."/kg
[E269] benzylchloride to air	0.11 kg 1,4-dichlorobenzene eq."/kg
[E270] beryllium to air	20000 kg 1,4-dichlorobenzene eq."/kg
[E272] bifenthrin to air	2400 kg 1,4-dichlorobenzene eq."/kg
[E290] Butylbenzylphtalate to air	0.13 kg 1,4-dichlorobenzene eq."/kg
[E385] cadmium to air	740 kg 1,4-dichlorobenzene eq."/kg
[E387] captafol to air	30000 kg 1,4-dichlorobenzene eq."/kg
[E388] captan to air	0.14 kg 1,4-dichlorobenzene eq."/kg
[E389] carbaryl to air	32 kg 1,4-dichlorobenzene eq."/kg
[E390] carbendazim to air	3000 kg 1,4-dichlorobenzene eq."/kg
[E391] carbofuran to air	520 kg 1,4-dichlorobenzene eq."/kg
[E394] carbon disulfide to air	0.027 kg 1,4-dichlorobenzene eq."/kg
[E404] chlordane to air	27 kg 1,4-dichlorobenzene eq."/kg
[E405] chlorfenvinphos to air	27 kg 1,4-dichlorobenzene eq."/kg
[E406] chloridazon to air	0.02 kg 1,4-dichlorobenzene eq."/kg
[E407] chlorobenzene to air	0.00044 kg 1,4-dichlorobenzene eq."/kg
[E410] chlorothalonil to air	1.8 kg 1,4-dichlorobenzene eq."/kg
[E411] chlorpropham to air	2 kg 1,4-dichlorobenzene eq."/kg
[E412] chlorpyriphos to air	330 kg 1,4-dichlorobenzene eq."/kg
[E413] chromium (unspecified) to air	4.9 kg 1,4-dichlorobenzene eq."/kg
[E414] chromium III to air	4.9 kg 1,4-dichlorobenzene eq."/kg
[E415] chromium VI to air	20 kg 1,4-dichlorobenzene eq."/kg
[E416] chrysene to air	130 kg 1,4-dichlorobenzene eq."/kg
[E421] cobalt to air	1100 kg 1,4-dichlorobenzene eq."/kg
[E422] copper to air	560 kg 1,4-dichlorobenzene eq."/kg
[E423] coumaphos to air	3.50E+05 kg 1,4-dichlorobenzene eq."/kg
[E425] cyanazine to air	1500 kg 1,4-dichlorobenzene eq."/kg
[E437] cypermethrin to air	1.50E+05 kg 1,4-dichlorobenzene eq."/kg
[E438] cyromazine to air	2800 kg 1,4-dichlorobenzene eq."/kg
[E439] DDT to air	3500 kg 1,4-dichlorobenzene eq."/kg
[E441] deltamethrin to air	2700 kg 1,4-dichlorobenzene eq."/kg
[E442] demeton to air	16 kg 1,4-dichlorobenzene eq."/kg
[E443] desmetryn to air	4.1 kg 1,4-dichlorobenzene eq."/kg
[E444] Di(2-ethylhexyl)phtalate to air	0.47 kg 1,4-dichlorobenzene eq."/kg
[E446] diazinon to air	160 kg 1,4-dichlorobenzene eq."/kg
[E448] Dibutylphtalate to air	0.073 kg 1,4-dichlorobenzene eq."/kg
[E449] Dichloromethane (Methylene Chloride) to air	2.40E-05 kg 1,4-dichlorobenzene eq."/kg
[E450] dichlorprop to air	0.053 kg 1,4-dichlorobenzene eq."/kg
[E451] dichlorvos to air	23 kg 1,4-dichlorobenzene eq."/kg
[E452] dieldrin to air	20 kg 1,4-dichlorobenzene eq."/kg
[E456] Diethylphtalate to air	0.28 kg 1,4-dichlorobenzene eq."/kg
[E457] Dihexylphtalate to air	1.2 kg 1,4-dichlorobenzene eq."/kg
[E458] Diisodecylphtalate to air	1.2 kg 1,4-dichlorobenzene eq."/kg
[E459] Diisooctylphtalate to air	0.28 kg 1,4-dichlorobenzene eq."/kg
[E461] dimethoate to air	9.3 kg 1,4-dichlorobenzene eq."/kg
[E468] Dimethylphtalate to air	0.013 kg 1,4-dichlorobenzene eq."/kg
[E470] dinoseb to air	2900 kg 1,4-dichlorobenzene eq."/kg
[E471] dinoterb to air	1300 kg 1,4-dichlorobenzene eq."/kg
[E472] Dioctylphtalate to air	0.027 kg 1,4-dichlorobenzene eq."/kg
[E475] disulfothon to air	9.2 kg 1,4-dichlorobenzene eq."/kg
[E476] diuron to air	9.2 kg 1,4-dichlorobenzene eq."/kg
[E478] DNOC to air	0.57 kg 1,4-dichlorobenzene eq."/kg
[E480] endosulfan to air	9.8 kg 1,4-dichlorobenzene eq."/kg
[E481] endrin to air	340 kg 1,4-dichlorobenzene eq."/kg
[E487] ethoprophos to air	1900 kg 1,4-dichlorobenzene eq."/kg
[E496] Ethylbenzene to air	8.70E-05 kg 1,4-dichlorobenzene eq."/kg
[E499] Ethylene (ethene) to air	9.00E-12 kg 1,4-dichlorobenzene eq."/kg
[E504] fenitrothion to air	1400 kg 1,4-dichlorobenzene eq."/kg
[E505] fenthion to air	1800 kg 1,4-dichlorobenzene eq."/kg

[E506] fentin acetate to air	6900 kg 1,4-dichlorobenzene eq."/kg
[E507] fentin chloride to air	3000 kg 1,4-dichlorobenzene eq."/kg
[E508] fentin hydroxide to air	6800 kg 1,4-dichlorobenzene eq."/kg
[E509] fluoranthrene to air	53 kg 1,4-dichlorobenzene eq."/kg
[E510] folpet to air	560 kg 1,4-dichlorobenzene eq."/kg
[E511] Formaldehyde (methanal) to air	4.5 kg 1,4-dichlorobenzene eq."/kg
[E516] glyphosate to air	21 kg 1,4-dichlorobenzene eq."/kg
[E533] heptachlor to air	2 kg 1,4-dichlorobenzene eq."/kg
[E535] heptenophos to air	15 kg 1,4-dichlorobenzene eq."/kg
[E536] hexachloro-1,3-butadiene to air	54 kg 1,4-dichlorobenzene eq."/kg
[E537] hexachlorobenzene to air	4.3 kg 1,4-dichlorobenzene eq."/kg
[E566] indeno[1,2,3-cd]pyrene to air	530 kg 1,4-dichlorobenzene eq."/kg
[E568] iprodione to air	0.23 kg 1,4-dichlorobenzene eq."/kg
[E583] isoproturon to air	71 kg 1,4-dichlorobenzene eq."/kg
[E584] lead to air	6.2 kg 1,4-dichlorobenzene eq."/kg
[E585] lindane to air	14 kg 1,4-dichlorobenzene eq."/kg
[E586] linuron to air	39 kg 1,4-dichlorobenzene eq."/kg
[E587] malathion to air	1100 kg 1,4-dichlorobenzene eq."/kg
[E589] MCPA to air	0.7 kg 1,4-dichlorobenzene eq."/kg
[E590] mecoprop to air	25 kg 1,4-dichlorobenzene eq."/kg
[E592] mercury to air	810 kg 1,4-dichlorobenzene eq."/kg
[E595] metamitron to air	0.49 kg 1,4-dichlorobenzene eq."/kg
[E596] meta-Xylene (1,3-dimethylbenzene) to air	2.80E-05 kg 1,4-dichlorobenzene eq."/kg
[E597] metazachlor to air	5.3 kg 1,4-dichlorobenzene eq."/kg
[E598] methabenzthiazuron to air	76 kg 1,4-dichlorobenzene eq."/kg
[E603] methomyl to air	10000 kg 1,4-dichlorobenzene eq."/kg
[E626] methyl-mercury to air	19000 kg 1,4-dichlorobenzene eq."/kg
[E628] metobromuron to air	48 kg 1,4-dichlorobenzene eq."/kg
[E629] metolachlor to air	1300 kg 1,4-dichlorobenzene eq."/kg
[E630] mevinphos to air	1200 kg 1,4-dichlorobenzene eq."/kg
[E632] molybdenum to air	210 kg 1,4-dichlorobenzene eq."/kg
[E633] Naphtalene to air	0.19 kg 1,4-dichlorobenzene eq."/kg
[E635] nickel to air	1600 kg 1,4-dichlorobenzene eq."/kg
[E650] ortho-Xylene (1,2-dimethylbenzene) to air	7.40E-05 kg 1,4-dichlorobenzene eq."/kg
[E651] oxamyl to air	25 kg 1,4-dichlorobenzene eq."/kg
[E652] oxydemethon-methyl to air	530 kg 1,4-dichlorobenzene eq."/kg
[E655] parathion-ethyl to air	1900 kg 1,4-dichlorobenzene eq."/kg
[E656] parathion-methyl to air	60 kg 1,4-dichlorobenzene eq."/kg
[E658] para-Xylene (1,4-dimethylbenzene) to air	3.70E-05 kg 1,4-dichlorobenzene eq."/kg
[E660] pentachlorobenzene to air	0.52 kg 1,4-dichlorobenzene eq."/kg
[E661] pentachloronitrobenzene to air	13 kg 1,4-dichlorobenzene eq."/kg
[E662] pentachlorophenol to air	24 kg 1,4-dichlorobenzene eq."/kg
[E672] permethrin to air	21000 kg 1,4-dichlorobenzene eq."/kg
[E674] phenanthrene to air	1.4 kg 1,4-dichlorobenzene eq."/kg
[E675] Phenol to air	0.56 kg 1,4-dichlorobenzene eq."/kg
[E679] phoxim to air	0.071 kg 1,4-dichlorobenzene eq."/kg
[E680] Phtalic anhydride to air	1.70E-05 kg 1,4-dichlorobenzene eq."/kg
[E682] pirimicarb to air	2400 kg 1,4-dichlorobenzene eq."/kg
[E685] Polycyclic Aromatic Hydrocarbons Carcinogenic- (carcinogenic-PAH) to air	560 kg 1,4-dichlorobenzene eq."/kg
[E686] propachlor to air	11 kg 1,4-dichlorobenzene eq."/kg
[E690] propoxur to air	18000 kg 1,4-dichlorobenzene eq."/kg
[E697] Propylene Oxide to air	0.02 kg 1,4-dichlorobenzene eq."/kg
[E698] pyrazophos to air	170 kg 1,4-dichlorobenzene eq."/kg
[E704] selenium to air	640 kg 1,4-dichlorobenzene eq."/kg
[E705] simazine to air	1800 kg 1,4-dichlorobenzene eq."/kg
[E706] styrene (vinylbenzene) to air	3.50E-05 kg 1,4-dichlorobenzene eq."/kg
[E718] tetrachloroethylene (PER) (tetrachloroethene) to air	0.00039 kg 1,4-dichlorobenzene eq."/kg
[E719] Tetrachloromethane (carbon tetrachloride) (HC-10) to air	0.00014 kg 1,4-dichlorobenzene eq."/kg
[E722] thallium to air	3900 kg 1,4-dichlorobenzene eq."/kg
[E723] Thiram to air	980 kg 1,4-dichlorobenzene eq."/kg
[E724] tin to air	1.3 kg 1,4-dichlorobenzene eq."/kg
[E725] tolclophos-methyl to air	0.16 kg 1,4-dichlorobenzene eq."/kg
[E727] Toluene to air	5.00E-05 kg 1,4-dichlorobenzene eq."/kg
[E733] tri-allate to air	22 kg 1,4-dichlorobenzene eq."/kg
[E734] triazophos to air	3000 kg 1,4-dichlorobenzene eq."/kg
[E735] tributyltinoxide to air	10000 kg 1,4-dichlorobenzene eq."/kg
[E736] trichlorfon to air	2400 kg 1,4-dichlorobenzene eq."/kg

[E737] Trichloroethylene (tri) to air	3.20E-05	kg 1,4-dichlorobenzene eq."/kg
[E738] Trichloromethane (chloroform) to air	4.90E-05	kg 1,4-dichlorobenzene eq."/kg
[E739] trifluarin to air	8.1	kg 1,4-dichlorobenzene eq."/kg
[E743] vanadium to air	4100	kg 1,4-dichlorobenzene eq."/kg
[E745] Vinyl Chloride (chloroethene) to air	2.30E-06	kg 1,4-dichlorobenzene eq."/kg
[E748] zinc to air	46	kg 1,4-dichlorobenzene eq."/kg
[E749] zineb to air	740	kg 1,4-dichlorobenzene eq."/kg
[E750] 1,1,1-trichloroethane to air	0.09	kg 1,4-dichlorobenzene eq."/kg
[E751] 1,2,3,4-tetrachlorobenzene to air	19	kg 1,4-dichlorobenzene eq."/kg
[E752] 1,2,3,5-tetrachlorobenzene to air	16	kg 1,4-dichlorobenzene eq."/kg
[E753] 1,2,3-trichlorobenzene to air	4.4	kg 1,4-dichlorobenzene eq."/kg
[E754] 1,2,4,5-tetrachlorobenzene to air	15	kg 1,4-dichlorobenzene eq."/kg
[E755] 1,2,4-trichlorobenzene to air	3.8	kg 1,4-dichlorobenzene eq."/kg
[E756] 1,2-dichlorobenzene to air	0.95	kg 1,4-dichlorobenzene eq."/kg
[E757] 1,2-dichloroethane to air	0.019	kg 1,4-dichlorobenzene eq."/kg
[E758] 1,3,5-trichlorobenzene to air	5.2	kg 1,4-dichlorobenzene eq."/kg
[E759] 1,3-butadiene to air	2	kg 1,4-dichlorobenzene eq."/kg
[E760] 1,3-dichlorobenzene to air	1.2	kg 1,4-dichlorobenzene eq."/kg
[E761] 1,4-dichlorobenzene to air	1	kg 1,4-dichlorobenzene eq."/kg
[E762] 1-chloro-4-nitrobenzene to air	770	kg 1,4-dichlorobenzene eq."/kg
[E763] 2,3,4,6-tetrachlorophenol to air	5700	kg 1,4-dichlorobenzene eq."/kg
[E764] 2,3,7,8-TCDD to air	5.60E+08	kg 1,4-dichlorobenzene eq."/kg
[E765] 2,4,5-T to air	12	kg 1,4-dichlorobenzene eq."/kg
[E766] 2,4,5-trichlorophenol to air	1900	kg 1,4-dichlorobenzene eq."/kg
[E767] 2,4,6-trichlorophenol to fresh water	290	kg 1,4-dichlorobenzene eq."/kg
[E768] 2,4-D to fresh water	300	kg 1,4-dichlorobenzene eq."/kg
[E769] 2,4-dichlorophenol to fresh water	68	kg 1,4-dichlorobenzene eq."/kg
[E770] 2-chlorophenol to fresh water	1300	kg 1,4-dichlorobenzene eq."/kg
[E771] 3,4-dichloroaniline to fresh water	2400	kg 1,4-dichlorobenzene eq."/kg
[E772] 3-chloroaniline to fresh water	2300	kg 1,4-dichlorobenzene eq."/kg
[E773] 4-chloroaniline to fresh water	2700	kg 1,4-dichlorobenzene eq."/kg
[E774] acephate to fresh water	560	kg 1,4-dichlorobenzene eq."/kg
[E775] Acrolein (2-propenal) to fresh water	1.90E+05	kg 1,4-dichlorobenzene eq."/kg
[E776] acrylonitrile to fresh water	52	kg 1,4-dichlorobenzene eq."/kg
[E777] aldicarb to fresh water	3.50E+05	kg 1,4-dichlorobenzene eq."/kg
[E778] aldrin to fresh water	1000	kg 1,4-dichlorobenzene eq."/kg
[E780] anilazine to fresh water	70	kg 1,4-dichlorobenzene eq."/kg
[E781] anthracene to fresh water	80000	kg 1,4-dichlorobenzene eq."/kg
[E782] antimony to fresh water	48	kg 1,4-dichlorobenzene eq."/kg
[E783] arsenic to fresh water	530	kg 1,4-dichlorobenzene eq."/kg
[E784] atrazine to fresh water	4300	kg 1,4-dichlorobenzene eq."/kg
[E785] azinphos-ethyl to fresh water	2.00E+05	kg 1,4-dichlorobenzene eq."/kg
[E786] azinphos-methyl to fresh water	27000	kg 1,4-dichlorobenzene eq."/kg
[E787] barium to fresh water	510	kg 1,4-dichlorobenzene eq."/kg
[E788] benomyl to fresh water	880	kg 1,4-dichlorobenzene eq."/kg
[E789] bentazone to fresh water	41	kg 1,4-dichlorobenzene eq."/kg
[E790] benzene to fresh water	0.07	kg 1,4-dichlorobenzene eq."/kg
[E791] benzo[a]anthracene to fresh water	3.50E+05	kg 1,4-dichlorobenzene eq."/kg
[E792] benzo[a]pyrene to fresh water	7.20E+05	kg 1,4-dichlorobenzene eq."/kg
[E793] benzo[ghi]perylene to fresh water	1.70E+05	kg 1,4-dichlorobenzene eq."/kg
[E794] benzo[k]fluoranthrene to fresh water	3.90E+06	kg 1,4-dichlorobenzene eq."/kg
[E795] benzylchloride to fresh water	29	kg 1,4-dichlorobenzene eq."/kg
[E796] beryllium to fresh water	1.10E+05	kg 1,4-dichlorobenzene eq."/kg
[E797] bifenthrin to fresh water	7.20E+05	kg 1,4-dichlorobenzene eq."/kg
[E800] Butylbenzylphtalate to fresh water	25	kg 1,4-dichlorobenzene eq."/kg
[E801] cadmium to fresh water	3900	kg 1,4-dichlorobenzene eq."/kg
[E802] captafol to fresh water	7.70E+05	kg 1,4-dichlorobenzene eq."/kg
[E803] captan to fresh water	18	kg 1,4-dichlorobenzene eq."/kg
[E804] carbaryl to fresh water	1300	kg 1,4-dichlorobenzene eq."/kg
[E805] carbendazim to fresh water	39000	kg 1,4-dichlorobenzene eq."/kg
[E806] carbofuran to fresh water	7600	kg 1,4-dichlorobenzene eq."/kg
[E807] carbon disulfide to fresh water	86	kg 1,4-dichlorobenzene eq."/kg
[E808] Carcinogenic PAHs to fresh water	89000	kg 1,4-dichlorobenzene eq."/kg
[E810] chlordane to fresh water	9100	kg 1,4-dichlorobenzene eq."/kg
[E811] chlorfenvinphos to fresh water	940	kg 1,4-dichlorobenzene eq."/kg
[E812] chloridazon to fresh water	25	kg 1,4-dichlorobenzene eq."/kg
[E814] chlorobenzene to fresh water	0.34	kg 1,4-dichlorobenzene eq."/kg

[E815] chlorothalonil to fresh water	260 kg 1,4-dichlorobenzene eq."/kg
[E816] chlorpropham to fresh water	71 kg 1,4-dichlorobenzene eq."/kg
[E817] chlorpyriphos to fresh water	4.10E+05 kg 1,4-dichlorobenzene eq."/kg
[E818] chromium III to fresh water	18 kg 1,4-dichlorobenzene eq."/kg
[E819] chromium VI to fresh water	71 kg 1,4-dichlorobenzene eq."/kg
[E820] chrysene to fresh water	59000 kg 1,4-dichlorobenzene eq."/kg
[E821] cobalt to fresh water	5600 kg 1,4-dichlorobenzene eq."/kg
[E822] copper to fresh water	2900 kg 1,4-dichlorobenzene eq."/kg
[E823] coumaphos to fresh water	2.90E+07 kg 1,4-dichlorobenzene eq."/kg
[E824] cyanazine to fresh water	43000 kg 1,4-dichlorobenzene eq."/kg
[E825] cypermethrin to fresh water	1.40E+07 kg 1,4-dichlorobenzene eq."/kg
[E826] cyromazine to fresh water	21000 kg 1,4-dichlorobenzene eq."/kg
[E827] DDT to fresh water	31000 kg 1,4-dichlorobenzene eq."/kg
[E828] deltamethrin to fresh water	9.80E+05 kg 1,4-dichlorobenzene eq."/kg
[E829] demeton to fresh water	16000 kg 1,4-dichlorobenzene eq."/kg
[E830] desmetryn to fresh water	120 kg 1,4-dichlorobenzene eq."/kg
[E831] Di(2-ethylhexyl)phtalate to fresh water	100 kg 1,4-dichlorobenzene eq."/kg
[E832] diazinon to fresh water	77000 kg 1,4-dichlorobenzene eq."/kg
[E833] Dibutylphtalate to fresh water	10 kg 1,4-dichlorobenzene eq."/kg
[E834] Dichloromethane (Methylene Chloride) to fresh water	0.0088 kg 1,4-dichlorobenzene eq."/kg
[E835] dichlorprop to fresh water	2.8 kg 1,4-dichlorobenzene eq."/kg
[E836] dichlorvos to fresh water	5500 kg 1,4-dichlorobenzene eq."/kg
[E837] dieldrin to fresh water	8200 kg 1,4-dichlorobenzene eq."/kg
[E838] Diethylphtalate to fresh water	22 kg 1,4-dichlorobenzene eq."/kg
[E839] Dihexylphtalate to fresh water	260 kg 1,4-dichlorobenzene eq."/kg
[E840] Diisodecylphtalate to fresh water	190 kg 1,4-dichlorobenzene eq."/kg
[E841] Diisooctylphtalate to fresh water	47 kg 1,4-dichlorobenzene eq."/kg
[E842] dimethoate to fresh water	130 kg 1,4-dichlorobenzene eq."/kg
[E843] Dimethylphtalate to fresh water	0.79 kg 1,4-dichlorobenzene eq."/kg
[E844] dinoseb to fresh water	88000 kg 1,4-dichlorobenzene eq."/kg
[E845] dinoterb to fresh water	1.00E+05 kg 1,4-dichlorobenzene eq."/kg
[E846] Dioctylphtalate to fresh water	4.7 kg 1,4-dichlorobenzene eq."/kg
[E847] disulfothon to fresh water	22000 kg 1,4-dichlorobenzene eq."/kg
[E848] diuron to fresh water	22000 kg 1,4-dichlorobenzene eq."/kg
[E849] DNOC to fresh water	19 kg 1,4-dichlorobenzene eq."/kg
[E850] endosulfan to fresh water	6000 kg 1,4-dichlorobenzene eq."/kg
[E851] endrin to fresh water	2.10E+05 kg 1,4-dichlorobenzene eq."/kg
[E852] ethoprophos to fresh water	1.20E+05 kg 1,4-dichlorobenzene eq."/kg
[E853] ethylbenzene to fresh water	0.36 kg 1,4-dichlorobenzene eq."/kg
[E854] ethylene to fresh water	0.014 kg 1,4-dichlorobenzene eq."/kg
[E855] fenitrothion to fresh water	1.40E+05 kg 1,4-dichlorobenzene eq."/kg
[E856] fenthion to fresh water	6.60E+05 kg 1,4-dichlorobenzene eq."/kg
[E857] fentin acetate to fresh water	4.30E+05 kg 1,4-dichlorobenzene eq."/kg
[E858] fentin chloride to fresh water	2.80E+05 kg 1,4-dichlorobenzene eq."/kg
[E859] fentin hydroxide to fresh water	4.30E+05 kg 1,4-dichlorobenzene eq."/kg
[E860] fluoranthrene to fresh water	39000 kg 1,4-dichlorobenzene eq."/kg
[E861] folpet to fresh water	1.10E+05 kg 1,4-dichlorobenzene eq."/kg
[E862] Formaldehyde (methanal) to fresh water	150 kg 1,4-dichlorobenzene eq."/kg
[E863] glyphosate to fresh water	1300 kg 1,4-dichlorobenzene eq."/kg
[E864] heptachlor to fresh water	26000 kg 1,4-dichlorobenzene eq."/kg
[E865] heptenophos to fresh water	2800 kg 1,4-dichlorobenzene eq."/kg
[E866] hexachloro-1,3-butadiene to fresh water	52000 kg 1,4-dichlorobenzene eq."/kg
[E867] hexachlorobenzene to fresh water	490 kg 1,4-dichlorobenzene eq."/kg
[E870] indeno[1,2,3-cd]pyrene to fresh water	2.50E+05 kg 1,4-dichlorobenzene eq."/kg
[E871] iprodione to fresh water	13 kg 1,4-dichlorobenzene eq."/kg
[E872] isoproturon to fresh water	710 kg 1,4-dichlorobenzene eq."/kg
[E873] lead to fresh water	25 kg 1,4-dichlorobenzene eq."/kg
[E874] lindane to fresh water	1700 kg 1,4-dichlorobenzene eq."/kg
[E875] linuron to fresh water	31000 kg 1,4-dichlorobenzene eq."/kg
[E876] malathion to fresh water	1.20E+05 kg 1,4-dichlorobenzene eq."/kg
[E878] MCPA to fresh water	18 kg 1,4-dichlorobenzene eq."/kg
[E879] mecoprop to fresh water	250 kg 1,4-dichlorobenzene eq."/kg
[E880] mercury to fresh water	4400 kg 1,4-dichlorobenzene eq."/kg
[E881] metamitron to fresh water	12 kg 1,4-dichlorobenzene eq."/kg
[E882] metazachlor to fresh water	110 kg 1,4-dichlorobenzene eq."/kg
[E883] methabenzthiazuron to fresh water	1200 kg 1,4-dichlorobenzene eq."/kg
[E884] methomyl to fresh water	1.00E+05 kg 1,4-dichlorobenzene eq."/kg

[E885] methylbromide to fresh water	10 kg 1,4-dichlorobenzene eq."/kg
[E886] methyl-mercury to fresh water	1.00E+05 kg 1,4-dichlorobenzene eq."/kg
[E887] metobromuron to fresh water	420 kg 1,4-dichlorobenzene eq."/kg
[E888] metolachlor to fresh water	34000 kg 1,4-dichlorobenzene eq."/kg
[E889] mevinphos to fresh water	74000 kg 1,4-dichlorobenzene eq."/kg
[E890] molybdenum to fresh water	1100 kg 1,4-dichlorobenzene eq."/kg
[E891] m-xylene to fresh water	0.39 kg 1,4-dichlorobenzene eq."/kg
[E892] naphtalene to fresh water	260 kg 1,4-dichlorobenzene eq."/kg
[E893] nickel to fresh water	8300 kg 1,4-dichlorobenzene eq."/kg
[E899] oxamyl to fresh water	300 kg 1,4-dichlorobenzene eq."/kg
[E900] oxydemethon-methyl to fresh water	16000 kg 1,4-dichlorobenzene eq."/kg
[E901] o-xylene to fresh water	0.45 kg 1,4-dichlorobenzene eq."/kg
[E902] parathion-ethyl to fresh water	8.00E+05 kg 1,4-dichlorobenzene eq."/kg
[E903] parathion-methyl to fresh water	18000 kg 1,4-dichlorobenzene eq."/kg
[E904] pentachlorobenzene to fresh water	72 kg 1,4-dichlorobenzene eq."/kg
[E905] pentachloronitrobenzene to fresh water	1100 kg 1,4-dichlorobenzene eq."/kg
[E906] pentachlorophenol to fresh water	1600 kg 1,4-dichlorobenzene eq."/kg
[E907] permethrin to fresh water	6.70E+06 kg 1,4-dichlorobenzene eq."/kg
[E908] phenanthrene to fresh water	560 kg 1,4-dichlorobenzene eq."/kg
[E909] phenol to fresh water	88 kg 1,4-dichlorobenzene eq."/kg
[E912] phoxim to fresh water	430 kg 1,4-dichlorobenzene eq."/kg
[E913] Phtalic anhydride to fresh water	0.0011 kg 1,4-dichlorobenzene eq."/kg
[E914] pirimicarb to fresh water	36000 kg 1,4-dichlorobenzene eq."/kg
[E916] propachlor to fresh water	670 kg 1,4-dichlorobenzene eq."/kg
[E917] propoxur to fresh water	1.80E+05 kg 1,4-dichlorobenzene eq."/kg
[E918] propylene oxide to fresh water	2.1 kg 1,4-dichlorobenzene eq."/kg
[E919] p-xylene to fresh water	0.33 kg 1,4-dichlorobenzene eq."/kg
[E920] pyrazophos to fresh water	45000 kg 1,4-dichlorobenzene eq."/kg
[E921] selenium to fresh water	3400 kg 1,4-dichlorobenzene eq."/kg
[E922] simazine to fresh water	23000 kg 1,4-dichlorobenzene eq."/kg
[E923] styrene (vinylbenzene) to fresh water	0.3 kg 1,4-dichlorobenzene eq."/kg
[E926] tetrachloroethylene (PER) to fresh water	0.67 kg 1,4-dichlorobenzene eq."/kg
[E927] Tetrachloromethane (carbon tetrachloride) (HC-10) to fresh water	0.12 kg 1,4-dichlorobenzene eq."/kg
[E928] thallium to fresh water	20000 kg 1,4-dichlorobenzene eq."/kg
[E929] Thiram to fresh water	35000 kg 1,4-dichlorobenzene eq."/kg
[E930] tin to fresh water	5.2 kg 1,4-dichlorobenzene eq."/kg
[E931] tolclophos-methyl to fresh water	530 kg 1,4-dichlorobenzene eq."/kg
[E932] toluene to fresh water	0.21 kg 1,4-dichlorobenzene eq."/kg
[E933] tri-allate to fresh water	17000 kg 1,4-dichlorobenzene eq."/kg
[E934] triazophos to fresh water	1.60E+05 kg 1,4-dichlorobenzene eq."/kg
[E935] tributyltinoxide to fresh water	6.10E+05 kg 1,4-dichlorobenzene eq."/kg
[E936] trichlorfon to fresh water	76000 kg 1,4-dichlorobenzene eq."/kg
[E937] Trichloroethylene (tri) to fresh water	0.082 kg 1,4-dichlorobenzene eq."/kg
[E938] Trichloromethane=chloroform to fresh water	0.022 kg 1,4-dichlorobenzene eq."/kg
[E939] trifluarin to fresh water	22000 kg 1,4-dichlorobenzene eq."/kg
[E940] vanadium to fresh water	21000 kg 1,4-dichlorobenzene eq."/kg
[E941] Vinyl Chloride (chloroethene) to fresh water	0.023 kg 1,4-dichlorobenzene eq."/kg
[E942] zinc to fresh water	240 kg 1,4-dichlorobenzene eq."/kg
[E943] zineb to fresh water	22000 kg 1,4-dichlorobenzene eq."/kg
[E944] 1,1,1-trichloroethane to fresh water	5.90E-05 kg 1,4-dichlorobenzene eq."/kg
[E945] 1,2,3,4-tetrachlorobenzene to fresh water	0.045 kg 1,4-dichlorobenzene eq."/kg
[E946] 1,2,3,5-tetrachlorobenzene to fresh water	0.033 kg 1,4-dichlorobenzene eq."/kg
[E947] 1,2,3-trichlorobenzene to fresh water	0.0043 kg 1,4-dichlorobenzene eq."/kg
[E948] 1,2,4,5-tetrachlorobenzene to fresh water	0.033 kg 1,4-dichlorobenzene eq."/kg
[E949] 1,2,4-trichlorobenzene to fresh water	0.0048 kg 1,4-dichlorobenzene eq."/kg
[E950] 1,2-dichlorobenzene to fresh water	0.0012 kg 1,4-dichlorobenzene eq."/kg
[E951] 1,2-dichloroethane to fresh water	7.40E-05 kg 1,4-dichlorobenzene eq."/kg
[E952] 1,3,5-trichlorobenzene to fresh water	0.0072 kg 1,4-dichlorobenzene eq."/kg
[E953] 1,3-butadiene to fresh water	3.80E-08 kg 1,4-dichlorobenzene eq."/kg
[E954] 1,3-dichlorobenzene to fresh water	0.001 kg 1,4-dichlorobenzene eq."/kg
[E955] 1,4-dichlorobenzene to fresh water	0.0011 kg 1,4-dichlorobenzene eq."/kg
[E956] 1-chloro-4-nitrobenzene to fresh water	1.7 kg 1,4-dichlorobenzene eq."/kg
[E957] 2,3,4,6-tetrachlorophenol to fresh water	0.0014 kg 1,4-dichlorobenzene eq."/kg
[E958] 2,3,7,8-TCDD to fresh water	4.30E+05 kg 1,4-dichlorobenzene eq."/kg
[E959] 2,4,5-T to fresh water	1.20E-10 kg 1,4-dichlorobenzene eq."/kg
[E960] 2,4,5-trichlorophenol to fresh water	0.064 kg 1,4-dichlorobenzene eq."/kg
[E961] 2,4,6-trichlorophenol to sea water	0.00023 kg 1,4-dichlorobenzene eq."/kg

[E962] 2,4-D to sea water	8.50E-11 kg 1,4-dichlorobenzene eq."/kg
[E963] 2,4-dichlorophenol to sea water	0.00011 kg 1,4-dichlorobenzene eq."/kg
[E964] 2-chlorophenol to sea water	0.0053 kg 1,4-dichlorobenzene eq."/kg
[E965] 3,4-dichloroaniline to sea water	0.0015 kg 1,4-dichlorobenzene eq."/kg
[E966] 3-chloroaniline to sea water	3.40E-06 kg 1,4-dichlorobenzene eq."/kg
[E967] 4-chloroaniline to sea water	0.0097 kg 1,4-dichlorobenzene eq."/kg
[E968] acephate to sea water	3.10E-08 kg 1,4-dichlorobenzene eq."/kg
[E969] Acrolein (2-propenal) to sea water	3.7 kg 1,4-dichlorobenzene eq."/kg
[E970] acrylonitrile to sea water	0.0039 kg 1,4-dichlorobenzene eq."/kg
[E971] aldicarb to sea water	0.098 kg 1,4-dichlorobenzene eq."/kg
[E972] aldrin to sea water	0.11 kg 1,4-dichlorobenzene eq."/kg
[E974] anilazine to sea water	6.80E-09 kg 1,4-dichlorobenzene eq."/kg
[E975] anthracene to sea water	23 kg 1,4-dichlorobenzene eq."/kg
[E976] antimony to sea water	1.80E-20 kg 1,4-dichlorobenzene eq."/kg
[E977] arsenic to sea water	9.80E-20 kg 1,4-dichlorobenzene eq."/kg
[E978] atrazine to sea water	0.0072 kg 1,4-dichlorobenzene eq."/kg
[E979] azinphos-ethyl to sea water	0.03 kg 1,4-dichlorobenzene eq."/kg
[E980] azinphos-methyl to sea water	5.60E-05 kg 1,4-dichlorobenzene eq."/kg
[E981] barium to sea water	5.40E-19 kg 1,4-dichlorobenzene eq."/kg
[E982] benomyl to sea water	1.10E-08 kg 1,4-dichlorobenzene eq."/kg
[E983] bentazone to sea water	6.00E-09 kg 1,4-dichlorobenzene eq."/kg
[E984] benzene to sea water	7.00E-06 kg 1,4-dichlorobenzene eq."/kg
[E985] benzo[a]anthracene to sea water	3.2 kg 1,4-dichlorobenzene eq."/kg
[E986] benzo[a]pyrene to sea water	0.8 kg 1,4-dichlorobenzene eq."/kg
[E987] benzo[ghi]perylene to sea water	0.16 kg 1,4-dichlorobenzene eq."/kg
[E988] benzo[k]fluoranthrene to sea water	30 kg 1,4-dichlorobenzene eq."/kg
[E989] benzylchloride to sea water	0.0017 kg 1,4-dichlorobenzene eq."/kg
[E990] beryllium to sea water	1.80E-16 kg 1,4-dichlorobenzene eq."/kg
[E991] bifenthrin to sea water	0.16 kg 1,4-dichlorobenzene eq."/kg
[E994] Butylbenzylphtalate to sea water	1.00E-05 kg 1,4-dichlorobenzene eq."/kg
[E995] cadmium to sea water	6.50E-20 kg 1,4-dichlorobenzene eq."/kg
[E996] captafol to sea water	7.30E-05 kg 1,4-dichlorobenzene eq."/kg
[E997] captan to sea water	5.70E-09 kg 1,4-dichlorobenzene eq."/kg
[E998] carbaryl to sea water	5.50E-07 kg 1,4-dichlorobenzene eq."/kg
[E999] carbendazim to sea water	2.40E-08 kg 1,4-dichlorobenzene eq."/kg
[E1000] carbofuran to sea water	0.00011 kg 1,4-dichlorobenzene eq."/kg
[E1001] carbon disulfide to sea water	0.0054 kg 1,4-dichlorobenzene eq."/kg
[E1002] Carcinogenic PAHs to sea water	0.38 kg 1,4-dichlorobenzene eq."/kg
[E1004] chlordane to sea water	3.2 kg 1,4-dichlorobenzene eq."/kg
[E1005] chlorfenvinphos to sea water	4.80E-05 kg 1,4-dichlorobenzene eq."/kg
[E1006] chloridazon to sea water	0.0027 kg 1,4-dichlorobenzene eq."/kg
[E1008] chlorobenzene to sea water	0.00024 kg 1,4-dichlorobenzene eq."/kg
[E1009] chlorothalonil to sea water	0.095 kg 1,4-dichlorobenzene eq."/kg
[E1010] chlorpropham to sea water	2.40E-05 kg 1,4-dichlorobenzene eq."/kg
[E1011] chlorpyriphos to sea water	0.15 kg 1,4-dichlorobenzene eq."/kg
[E1012] chromium III to sea water	2.30E-22 kg 1,4-dichlorobenzene eq."/kg
[E1013] chromium VI to sea water	9.10E-22 kg 1,4-dichlorobenzene eq."/kg
[E1014] chrysene to sea water	0.83 kg 1,4-dichlorobenzene eq."/kg
[E1015] cobalt to sea water	2.00E-18 kg 1,4-dichlorobenzene eq."/kg
[E1016] copper to sea water	1.00E-19 kg 1,4-dichlorobenzene eq."/kg
[E1017] coumaphos to sea water	150 kg 1,4-dichlorobenzene eq."/kg
[E1018] cyanazine to sea water	1.90E-06 kg 1,4-dichlorobenzene eq."/kg
[E1019] cypermethrin to sea water	4.3 kg 1,4-dichlorobenzene eq."/kg
[E1020] cyromazine to sea water	6.50E-07 kg 1,4-dichlorobenzene eq."/kg
[E1021] DDT to sea water	16 kg 1,4-dichlorobenzene eq."/kg
[E1022] deltamethrin to sea water	4.8 kg 1,4-dichlorobenzene eq."/kg
[E1023] demeton to sea water	0.012 kg 1,4-dichlorobenzene eq."/kg
[E1024] desmetryn to sea water	2.40E-06 kg 1,4-dichlorobenzene eq."/kg
[E1025] Di(2-ethylhexyl)phtalate to sea water	0.0021 kg 1,4-dichlorobenzene eq."/kg
[E1026] diazinon to sea water	0.046 kg 1,4-dichlorobenzene eq."/kg
[E1027] Dibutylphtalate to sea water	3.80E-06 kg 1,4-dichlorobenzene eq."/kg
[E1028] Dichloromethane (Methylene Chloride) to sea water	3.60E-06 kg 1,4-dichlorobenzene eq."/kg
[E1029] dichlorprop to sea water	8.30E-13 kg 1,4-dichlorobenzene eq."/kg
[E1030] dichlorvos to sea water	0.00051 kg 1,4-dichlorobenzene eq."/kg
[E1031] dieldrin to sea water	1.7 kg 1,4-dichlorobenzene eq."/kg
[E1032] Diethylphtalate to sea water	5.20E-05 kg 1,4-dichlorobenzene eq."/kg
[E1033] Dihexylphtalate to sea water	0.026 kg 1,4-dichlorobenzene eq."/kg

[E1034] Diisodecylphtalate to sea water	0.085 kg 1,4-dichlorobenzene eq."/kg
[E1035] Diisooctylphtalate to sea water	0.0087 kg 1,4-dichlorobenzene eq."/kg
[E1036] dimethoate to sea water	5.50E-06 kg 1,4-dichlorobenzene eq."/kg
[E1037] Dimethylphtalate to sea water	9.80E-08 kg 1,4-dichlorobenzene eq."/kg
[E1038] dinoseb to sea water	0.029 kg 1,4-dichlorobenzene eq."/kg
[E1039] dinoterb to sea water	0.019 kg 1,4-dichlorobenzene eq."/kg
[E1040] Dioctylphtalate to sea water	0.00024 kg 1,4-dichlorobenzene eq."/kg
[E1041] disulfothon to sea water	0.0046 kg 1,4-dichlorobenzene eq."/kg
[E1042] diuron to sea water	0.0046 kg 1,4-dichlorobenzene eq."/kg
[E1043] DNOC to sea water	3.60E-09 kg 1,4-dichlorobenzene eq."/kg
[E1044] endosulfan to sea water	0.0045 kg 1,4-dichlorobenzene eq."/kg
[E1045] endrin to sea water	1.9 kg 1,4-dichlorobenzene eq."/kg
[E1046] ethoprophos to sea water	0.79 kg 1,4-dichlorobenzene eq."/kg
[E1047] ethylbenzene to sea water	6.30E-06 kg 1,4-dichlorobenzene eq."/kg
[E1048] ethylene to sea water	6.60E-13 kg 1,4-dichlorobenzene eq."/kg
[E1049] fenitrothion to sea water	0.0055 kg 1,4-dichlorobenzene eq."/kg
[E1050] fenthion to sea water	0.19 kg 1,4-dichlorobenzene eq."/kg
[E1051] fentin acetate to sea water	0.14 kg 1,4-dichlorobenzene eq."/kg
[E1052] fentin chloride to sea water	29 kg 1,4-dichlorobenzene eq."/kg
[E1053] fentin hydroxide to sea water	0.047 kg 1,4-dichlorobenzene eq."/kg
[E1054] fluoranthrene to sea water	2.6 kg 1,4-dichlorobenzene eq."/kg
[E1055] folpet to sea water	22 kg 1,4-dichlorobenzene eq."/kg
[E1056] Formaldehyde (methanal) to sea water	0.00012 kg 1,4-dichlorobenzene eq."/kg
[E1057] glyphosate to sea water	2.00E-11 kg 1,4-dichlorobenzene eq."/kg
[E1058] heptachlor to sea water	0.055 kg 1,4-dichlorobenzene eq."/kg
[E1059] heptenophos to sea water	0.00017 kg 1,4-dichlorobenzene eq."/kg
[E1060] hexachloro-1,3-butadiene to sea water	26 kg 1,4-dichlorobenzene eq."/kg
[E1061] hexachlorobenzene to sea water	3.6 kg 1,4-dichlorobenzene eq."/kg
[E1064] indeno[1,2,3-cd]pyrene to sea water	0.0024 kg 1,4-dichlorobenzene eq."/kg
[E1065] iprodione to sea water	3.10E-10 kg 1,4-dichlorobenzene eq."/kg
[E1066] isoproturon to sea water	1.10E-05 kg 1,4-dichlorobenzene eq."/kg
[E1067] lead to sea water	1.40E-22 kg 1,4-dichlorobenzene eq."/kg
[E1068] lindane to sea water	0.03 kg 1,4-dichlorobenzene eq."/kg
[E1069] linuron to sea water	0.06 kg 1,4-dichlorobenzene eq."/kg
[E1070] malathion to sea water	0.011 kg 1,4-dichlorobenzene eq."/kg
[E1072] MCPA to sea water	3.60E-13 kg 1,4-dichlorobenzene eq."/kg
[E1073] mecoprop to sea water	2.50E-10 kg 1,4-dichlorobenzene eq."/kg
[E1074] mercury to sea water	17 kg 1,4-dichlorobenzene eq."/kg
[E1075] metamitron to sea water	3.50E-10 kg 1,4-dichlorobenzene eq."/kg
[E1076] metazachlor to sea water	2.20E-06 kg 1,4-dichlorobenzene eq."/kg
[E1077] methabenzthiazuron to sea water	0.0001 kg 1,4-dichlorobenzene eq."/kg
[E1078] methomyl to sea water	0.0063 kg 1,4-dichlorobenzene eq."/kg
[E1079] methylbromide to sea water	0.0012 kg 1,4-dichlorobenzene eq."/kg
[E1080] methyl-mercury to sea water	400 kg 1,4-dichlorobenzene eq."/kg
[E1081] metobromuron to sea water	0.0016 kg 1,4-dichlorobenzene eq."/kg
[E1082] metolachlor to sea water	0.062 kg 1,4-dichlorobenzene eq."/kg
[E1083] mevinphos to sea water	8.80E-06 kg 1,4-dichlorobenzene eq."/kg
[E1084] molybdenum to sea water	1.50E-18 kg 1,4-dichlorobenzene eq."/kg
[E1085] m-xylene to sea water	4.70E-06 kg 1,4-dichlorobenzene eq."/kg
[E1086] naphtalene to sea water	0.0045 kg 1,4-dichlorobenzene eq."/kg
[E1087] nickel to sea water	1.60E-18 kg 1,4-dichlorobenzene eq."/kg
[E1093] oxamyl to sea water	2.10E-07 kg 1,4-dichlorobenzene eq."/kg
[E1094] oxydemethon-methyl to sea water	6.80E-05 kg 1,4-dichlorobenzene eq."/kg
[E1095] o-xylene to sea water	1.20E-05 kg 1,4-dichlorobenzene eq."/kg
[E1096] parathion-ethyl to sea water	0.14 kg 1,4-dichlorobenzene eq."/kg
[E1097] parathion-methyl to sea water	0.0074 kg 1,4-dichlorobenzene eq."/kg
[E1098] pentachlorobenzene to sea water	0.33 kg 1,4-dichlorobenzene eq."/kg
[E1099] pentachloronitrobenzene to sea water	3.1 kg 1,4-dichlorobenzene eq."/kg
[E1100] pentachlorophenol to sea water	2.70E-05 kg 1,4-dichlorobenzene eq."/kg
[E1101] permethrin to sea water	13 kg 1,4-dichlorobenzene eq."/kg
[E1102] phenanthrene to sea water	0.063 kg 1,4-dichlorobenzene eq."/kg
[E1103] phenol to sea water	6.40E-06 kg 1,4-dichlorobenzene eq."/kg
[E1106] phoxim to sea water	0.0054 kg 1,4-dichlorobenzene eq."/kg
[E1107] Phtalic anhydride to sea water	9.40E-14 kg 1,4-dichlorobenzene eq."/kg
[E1108] pirimicarb to sea water	0.0009 kg 1,4-dichlorobenzene eq."/kg
[E1110] propachlor to sea water	0.00027 kg 1,4-dichlorobenzene eq."/kg
[E1111] propoxur to sea water	8.20E-05 kg 1,4-dichlorobenzene eq."/kg

[E1112] propylene oxide to sea water	0.00024 kg 1,4-dichlorobenzene eq."/kg
[E1113] p-xylene to sea water	6.10E-06 kg 1,4-dichlorobenzene eq."/kg
[E1114] pyrazophos to sea water	0.002 kg 1,4-dichlorobenzene eq."/kg
[E1115] selenium to sea water	8.60E-18 kg 1,4-dichlorobenzene eq."/kg
[E1116] simazine to sea water	0.0038 kg 1,4-dichlorobenzene eq."/kg
[E1117] styrene (vinylbenzene) to sea water	7.00E-06 kg 1,4-dichlorobenzene eq."/kg
[E1120] tetrachloroethylene (PER) to sea water	0.00019 kg 1,4-dichlorobenzene eq."/kg
[E1121] Tetrachloromethane (carbon tetrachloride) (HC-10) to sea water	0.00011 kg 1,4-dichlorobenzene eq."/kg
[E1122] thallium to sea water	2.00E-17 kg 1,4-dichlorobenzene eq."/kg
[E1123] Thiram to sea water	0.0095 kg 1,4-dichlorobenzene eq."/kg
[E1124] tin to sea water	4.80E-23 kg 1,4-dichlorobenzene eq."/kg
[E1125] tolclophos-methyl to sea water	0.031 kg 1,4-dichlorobenzene eq."/kg
[E1126] toluene to sea water	5.90E-06 kg 1,4-dichlorobenzene eq."/kg
[E1127] tri-allate to sea water	0.41 kg 1,4-dichlorobenzene eq."/kg
[E1128] triazophos to sea water	0.074 kg 1,4-dichlorobenzene eq."/kg
[E1129] tributyltinoxide to sea water	4.1 kg 1,4-dichlorobenzene eq."/kg
[E1130] trichlorfon to sea water	9.90E-07 kg 1,4-dichlorobenzene eq."/kg
[E1131] Trichloroethylene (tri) to sea water	1.30E-05 kg 1,4-dichlorobenzene eq."/kg
[E1132] Trichloromethane=chloroform to sea water	2.30E-05 kg 1,4-dichlorobenzene eq."/kg
[E1133] trifluarin to sea water	1.4 kg 1,4-dichlorobenzene eq."/kg
[E1134] vanadium to sea water	5.70E-18 kg 1,4-dichlorobenzene eq."/kg
[E1135] Vinyl Chloride (chloroethene) to sea water	1.10E-06 kg 1,4-dichlorobenzene eq."/kg
[E1136] zinc to sea water	4.50E-21 kg 1,4-dichlorobenzene eq."/kg
[E1137] zineb to sea water	0.0029 kg 1,4-dichlorobenzene eq."/kg
[E1138] 1,1,1-trichloroethane to sea water	0.00031 kg 1,4-dichlorobenzene eq."/kg
[E1139] 1,2,3,4-tetrachlorobenzene to sea water	0.032 kg 1,4-dichlorobenzene eq."/kg
[E1140] 1,2,3,5-tetrachlorobenzene to sea water	0.093 kg 1,4-dichlorobenzene eq."/kg
[E1141] 1,2,3-trichlorobenzene to sea water	0.025 kg 1,4-dichlorobenzene eq."/kg
[E1142] 1,2,4,5-tetrachlorobenzene to sea water	0.029 kg 1,4-dichlorobenzene eq."/kg
[E1143] 1,2,4-trichlorobenzene to sea water	0.022 kg 1,4-dichlorobenzene eq."/kg
[E1144] 1,2-dichlorobenzene to sea water	0.018 kg 1,4-dichlorobenzene eq."/kg
[E1145] 1,2-dichloroethane to sea water	0.00063 kg 1,4-dichlorobenzene eq."/kg
[E1146] 1,3,5-trichlorobenzene to sea water	0.056 kg 1,4-dichlorobenzene eq."/kg
[E1147] 1,3-butadiene to sea water	3.80E-05 kg 1,4-dichlorobenzene eq."/kg
[E1148] 1,3-dichlorobenzene to sea water	0.016 kg 1,4-dichlorobenzene eq."/kg
[E1149] 1,4-dichlorobenzene to sea water	0.014 kg 1,4-dichlorobenzene eq."/kg
[E1150] 1-chloro-4-nitrobenzene to sea water	130 kg 1,4-dichlorobenzene eq."/kg
[E1151] 2,3,4,6-tetrachlorophenol to sea water	35 kg 1,4-dichlorobenzene eq."/kg
[E1152] 2,3,7,8-TCDD to sea water	4.00E+05 kg 1,4-dichlorobenzene eq."/kg
[E1153] 2,4,5-T to sea water	0.32 kg 1,4-dichlorobenzene eq."/kg
[E1154] 2,4,5-trichlorophenol to sea water	33 kg 1,4-dichlorobenzene eq."/kg
[E1155] 2,4,6-trichlorophenol to agricultural soil	1.2 kg 1,4-dichlorobenzene eq."/kg
[E1156] 2,4-D to agricultural soil	22 kg 1,4-dichlorobenzene eq."/kg
[E1157] 2,4-dichlorophenol to agricultural soil	1 kg 1,4-dichlorobenzene eq."/kg
[E1158] 2-chlorophenol to agricultural soil	6.3 kg 1,4-dichlorobenzene eq."/kg
[E1159] 3,4-dichloroaniline to agricultural soil	2300 kg 1,4-dichlorobenzene eq."/kg
[E1160] 3-chloroaniline to agricultural soil	68 kg 1,4-dichlorobenzene eq."/kg
[E1161] 4-chloroaniline to agricultural soil	150 kg 1,4-dichlorobenzene eq."/kg
[E1162] acephate to agricultural soil	26 kg 1,4-dichlorobenzene eq."/kg
[E1163] Acrolein (2-propenal) to agricultural soil	34000 kg 1,4-dichlorobenzene eq."/kg
[E1164] acrylonitrile to agricultural soil	4.2 kg 1,4-dichlorobenzene eq."/kg
[E1165] aldicarb to agricultural soil	76000 kg 1,4-dichlorobenzene eq."/kg
[E1166] aldrin to agricultural soil	24 kg 1,4-dichlorobenzene eq."/kg
[E1168] anilazine to agricultural soil	0.014 kg 1,4-dichlorobenzene eq."/kg
[E1169] anthracene to agricultural soil	110 kg 1,4-dichlorobenzene eq."/kg
[E1170] antimony to agricultural soil	24 kg 1,4-dichlorobenzene eq."/kg
[E1171] arsenic to agricultural soil	340 kg 1,4-dichlorobenzene eq."/kg
[E1172] atrazine to agricultural soil	300 kg 1,4-dichlorobenzene eq."/kg
[E1173] azinphos-ethyl to agricultural soil	2000 kg 1,4-dichlorobenzene eq."/kg
[E1174] azinphos-methyl to agricultural soil	100 kg 1,4-dichlorobenzene eq."/kg
[E1175] barium to agricultural soil	260 kg 1,4-dichlorobenzene eq."/kg
[E1176] benomyl to agricultural soil	0.59 kg 1,4-dichlorobenzene eq."/kg
[E1177] bentazone to agricultural soil	6.7 kg 1,4-dichlorobenzene eq."/kg
[E1178] benzene to agricultural soil	0.00054 kg 1,4-dichlorobenzene eq."/kg
[E1179] benzo[a]anthracene to agricultural soil	190 kg 1,4-dichlorobenzene eq."/kg
[E1180] benzo[a]pyrene to agricultural soil	380 kg 1,4-dichlorobenzene eq."/kg
[E1181] benzo[ghi]perylene to agricultural soil	200 kg 1,4-dichlorobenzene eq."/kg

[E1182] benzo[k]fluoranthrene to agricultural soil	17000 kg 1,4-dichlorobenzene eq."/kg
[E1183] benzylchloride to agricultural soil	0.13 kg 1,4-dichlorobenzene eq."/kg
[E1184] beryllium to agricultural soil	54000 kg 1,4-dichlorobenzene eq."/kg
[E1185] bifenthrin to agricultural soil	310 kg 1,4-dichlorobenzene eq."/kg
[E1186] Butylbenzylphtalate to agricultural soil	0.0082 kg 1,4-dichlorobenzene eq."/kg
[E1187] cadmium to agricultural soil	2000 kg 1,4-dichlorobenzene eq."/kg
[E1188] captafol to agricultural soil	39000 kg 1,4-dichlorobenzene eq."/kg
[E1189] captan to agricultural soil	0.0035 kg 1,4-dichlorobenzene eq."/kg
[E1190] carbaryl to agricultural soil	6.7 kg 1,4-dichlorobenzene eq."/kg
[E1191] carbendazim to agricultural soil	2000 kg 1,4-dichlorobenzene eq."/kg
[E1192] carbofuran to agricultural soil	340 kg 1,4-dichlorobenzene eq."/kg
[E1193] carbon disulfide to agricultural soil	0.28 kg 1,4-dichlorobenzene eq."/kg
[E1194] Carcinogenic PAHs to agricultural soil	190 kg 1,4-dichlorobenzene eq."/kg
[E1195] chlordane to agricultural soil	9.5 kg 1,4-dichlorobenzene eq."/kg
[E1196] chlorfenvinphos to agricultural soil	14 kg 1,4-dichlorobenzene eq."/kg
[E1197] chloridazon to agricultural soil	1.4 kg 1,4-dichlorobenzene eq."/kg
[E1198] chlorobenzene to agricultural soil	0.003 kg 1,4-dichlorobenzene eq."/kg
[E1199] chlorothalonil to agricultural soil	0.73 kg 1,4-dichlorobenzene eq."/kg
[E1200] chlorpropham to agricultural soil	1.6 kg 1,4-dichlorobenzene eq."/kg
[E1201] chlorpyriphos to agricultural soil	230 kg 1,4-dichlorobenzene eq."/kg
[E1202] chromium III to agricultural soil	13 kg 1,4-dichlorobenzene eq."/kg
[E1203] chromium VI to agricultural soil	54 kg 1,4-dichlorobenzene eq."/kg
[E1204] chrysene to agricultural soil	240 kg 1,4-dichlorobenzene eq."/kg
[E1205] cobalt to agricultural soil	2800 kg 1,4-dichlorobenzene eq."/kg
[E1206] copper to agricultural soil	1500 kg 1,4-dichlorobenzene eq."/kg
[E1207] coumaphos to agricultural soil	1.50E+06 kg 1,4-dichlorobenzene eq."/kg
[E1208] cyanazine to agricultural soil	630 kg 1,4-dichlorobenzene eq."/kg
[E1209] cypermethrin to agricultural soil	3.60E+05 kg 1,4-dichlorobenzene eq."/kg
[E1210] cyromazine to agricultural soil	5200 kg 1,4-dichlorobenzene eq."/kg
[E1211] DDT to agricultural soil	94 kg 1,4-dichlorobenzene eq."/kg
[E1212] deltamethrin to agricultural soil	36 kg 1,4-dichlorobenzene eq."/kg
[E1213] demeton to agricultural soil	570 kg 1,4-dichlorobenzene eq."/kg
[E1214] desmetryn to agricultural soil	1.8 kg 1,4-dichlorobenzene eq."/kg
[E1215] Di(2-ethylhexyl)phtalate to agricultural soil	0.002 kg 1,4-dichlorobenzene eq."/kg
[E1216] diazinon to agricultural soil	930 kg 1,4-dichlorobenzene eq."/kg
[E1217] Dibutylphtalate to agricultural soil	0.01 kg 1,4-dichlorobenzene eq."/kg
[E1218] Dichloromethane (Methylene Chloride) to agricultural soil	0.00011 kg 1,4-dichlorobenzene eq."/kg
[E1219] dichlorprop to agricultural soil	0.0069 kg 1,4-dichlorobenzene eq."/kg
[E1220] dichlorvos to agricultural soil	3.3 kg 1,4-dichlorobenzene eq."/kg
[E1221] dieldrin to agricultural soil	63 kg 1,4-dichlorobenzene eq."/kg
[E1222] Diethylphtalate to agricultural soil	0.11 kg 1,4-dichlorobenzene eq."/kg
[E1223] Dihexylphtalate to agricultural soil	0.044 kg 1,4-dichlorobenzene eq."/kg
[E1224] Diisodecylphtalate to agricultural soil	0.01 kg 1,4-dichlorobenzene eq."/kg
[E1225] Diisooctylphtalate to agricultural soil	0.0014 kg 1,4-dichlorobenzene eq."/kg
[E1226] dimethoate to agricultural soil	6.6 kg 1,4-dichlorobenzene eq."/kg
[E1227] Dimethylphtalate to agricultural soil	0.0019 kg 1,4-dichlorobenzene eq."/kg
[E1228] dinoseb to agricultural soil	5600 kg 1,4-dichlorobenzene eq."/kg
[E1229] dinoterb to agricultural soil	150 kg 1,4-dichlorobenzene eq."/kg
[E1230] Dioctylphtalate to agricultural soil	7.10E-05 kg 1,4-dichlorobenzene eq."/kg
[E1231] disulfothon to agricultural soil	25 kg 1,4-dichlorobenzene eq."/kg
[E1232] diuron to agricultural soil	25 kg 1,4-dichlorobenzene eq."/kg
[E1233] DNOC to agricultural soil	0.2 kg 1,4-dichlorobenzene eq."/kg
[E1234] endosulfan to agricultural soil	0.48 kg 1,4-dichlorobenzene eq."/kg
[E1235] endrin to agricultural soil	6400 kg 1,4-dichlorobenzene eq."/kg
[E1236] ethoprophos to agricultural soil	8800 kg 1,4-dichlorobenzene eq."/kg
[E1237] ethylbenzene to agricultural soil	0.0012 kg 1,4-dichlorobenzene eq."/kg
[E1238] ethylene to agricultural soil	7.10E-10 kg 1,4-dichlorobenzene eq."/kg
[E1239] fenitrothion to agricultural soil	420 kg 1,4-dichlorobenzene eq."/kg
[E1240] fenthion to agricultural soil	2500 kg 1,4-dichlorobenzene eq."/kg
[E1241] fentin acetate to agricultural soil	620 kg 1,4-dichlorobenzene eq."/kg
[E1242] fentin chloride to agricultural soil	410 kg 1,4-dichlorobenzene eq."/kg
[E1243] fentin hydroxide to agricultural soil	620 kg 1,4-dichlorobenzene eq."/kg
[E1244] fluoranthrene to agricultural soil	57 kg 1,4-dichlorobenzene eq."/kg
[E1245] folpet to agricultural soil	6200 kg 1,4-dichlorobenzene eq."/kg
[E1246] Formaldehyde (methanal) to agricultural soil	7.9 kg 1,4-dichlorobenzene eq."/kg
[E1247] glyphosate to agricultural soil	0.9 kg 1,4-dichlorobenzene eq."/kg
[E1248] heptachlor to agricultural soil	3.2 kg 1,4-dichlorobenzene eq."/kg

[E1249] heptenophos to agricultural soil	3.8 kg 1,4-dichlorobenzene eq."/kg
[E1250] hexachloro-1,3-butadiene to agricultural soil	80 kg 1,4-dichlorobenzene eq."/kg
[E1251] hexachlorobenzene to agricultural soil	10 kg 1,4-dichlorobenzene eq."/kg
[E1254] indeno[1,2,3-cd]pyrene to agricultural soil	290 kg 1,4-dichlorobenzene eq."/kg
[E1255] iprodione to agricultural soil	0.019 kg 1,4-dichlorobenzene eq."/kg
[E1256] isoproturon to agricultural soil	63 kg 1,4-dichlorobenzene eq."/kg
[E1257] lead to agricultural soil	17 kg 1,4-dichlorobenzene eq."/kg
[E1258] lindane to agricultural soil	25 kg 1,4-dichlorobenzene eq."/kg
[E1259] linuron to agricultural soil	690 kg 1,4-dichlorobenzene eq."/kg
[E1260] malathion to agricultural soil	95 kg 1,4-dichlorobenzene eq."/kg
[E1261] MCPA to agricultural soil	0.31 kg 1,4-dichlorobenzene eq."/kg
[E1262] mecoprop to agricultural soil	20 kg 1,4-dichlorobenzene eq."/kg
[E1263] mercury to agricultural soil	2200 kg 1,4-dichlorobenzene eq."/kg
[E1264] metamitron to agricultural soil	0.22 kg 1,4-dichlorobenzene eq."/kg
[E1265] metazachlor to agricultural soil	2.8 kg 1,4-dichlorobenzene eq."/kg
[E1266] methabenzthiazuron to agricultural soil	48 kg 1,4-dichlorobenzene eq."/kg
[E1267] methomyl to agricultural soil	11000 kg 1,4-dichlorobenzene eq."/kg
[E1268] methylbromide to agricultural soil	0.072 kg 1,4-dichlorobenzene eq."/kg
[E1269] methyl-mercury to agricultural soil	50000 kg 1,4-dichlorobenzene eq."/kg
[E1270] metobromuron to agricultural soil	92 kg 1,4-dichlorobenzene eq."/kg
[E1271] metolachlor to agricultural soil	1700 kg 1,4-dichlorobenzene eq."/kg
[E1272] mevinphos to agricultural soil	44 kg 1,4-dichlorobenzene eq."/kg
[E1273] molybdenum to agricultural soil	580 kg 1,4-dichlorobenzene eq."/kg
[E1274] m-xylene to agricultural soil	0.0012 kg 1,4-dichlorobenzene eq."/kg
[E1275] naphtalene to agricultural soil	1.5 kg 1,4-dichlorobenzene eq."/kg
[E1276] nickel to agricultural soil	4300 kg 1,4-dichlorobenzene eq."/kg
[E1278] oxamyl to agricultural soil	13 kg 1,4-dichlorobenzene eq."/kg
[E1279] oxydemethon-methyl to agricultural soil	220 kg 1,4-dichlorobenzene eq."/kg
[E1280] o-xylene to agricultural soil	0.002 kg 1,4-dichlorobenzene eq."/kg
[E1281] parathion-ethyl to agricultural soil	340 kg 1,4-dichlorobenzene eq."/kg
[E1282] parathion-methyl to agricultural soil	68 kg 1,4-dichlorobenzene eq."/kg
[E1283] pentachlorobenzene to agricultural soil	0.83 kg 1,4-dichlorobenzene eq."/kg
[E1284] pentachloronitrobenzene to agricultural soil	4.3 kg 1,4-dichlorobenzene eq."/kg
[E1285] pentachlorophenol to agricultural soil	0.74 kg 1,4-dichlorobenzene eq."/kg
[E1286] permethrin to agricultural soil	1200 kg 1,4-dichlorobenzene eq."/kg
[E1287] phenanthrene to agricultural soil	0.32 kg 1,4-dichlorobenzene eq."/kg
[E1288] phenol to agricultural soil	1.3 kg 1,4-dichlorobenzene eq."/kg
[E1289] phoxim to agricultural soil	0.72 kg 1,4-dichlorobenzene eq."/kg
[E1290] Phtalic anhydride to agricultural soil	9.80E-08 kg 1,4-dichlorobenzene eq."/kg
[E1291] pirimicarb to agricultural soil	1700 kg 1,4-dichlorobenzene eq."/kg
[E1293] propachlor to agricultural soil	9.4 kg 1,4-dichlorobenzene eq."/kg
[E1294] propoxur to agricultural soil	14000 kg 1,4-dichlorobenzene eq."/kg
[E1295] propylene oxide to agricultural soil	0.23 kg 1,4-dichlorobenzene eq."/kg
[E1296] p-xylene to agricultural soil	0.00086 kg 1,4-dichlorobenzene eq."/kg
[E1297] pyrazophos to agricultural soil	230 kg 1,4-dichlorobenzene eq."/kg
[E1298] selenium to agricultural soil	1700 kg 1,4-dichlorobenzene eq."/kg
[E1299] simazine to agricultural soil	2000 kg 1,4-dichlorobenzene eq."/kg
[E1300] styrene (vinylbenzene) to agricultural soil	0.0011 kg 1,4-dichlorobenzene eq."/kg
[E1302] tetrachloroethylene (PER) to agricultural soil	0.0021 kg 1,4-dichlorobenzene eq."/kg
[E1303] Tetrachloromethane (carbon tetrachloride) (HC-10) to agricultural soil	0.00032 kg 1,4-dichlorobenzene eq."/kg
[E1304] thallium to agricultural soil	11000 kg 1,4-dichlorobenzene eq."/kg
[E1305] Thiram to agricultural soil	250 kg 1,4-dichlorobenzene eq."/kg
[E1306] tin to agricultural soil	3.5 kg 1,4-dichlorobenzene eq."/kg
[E1307] tolclophos-methyl to agricultural soil	3.3 kg 1,4-dichlorobenzene eq."/kg
[E1308] toluene to agricultural soil	0.00075 kg 1,4-dichlorobenzene eq."/kg
[E1309] tri-allate to agricultural soil	18 kg 1,4-dichlorobenzene eq."/kg
[E1310] triazophos to agricultural soil	5400 kg 1,4-dichlorobenzene eq."/kg
[E1311] tributyltinoxide to agricultural soil	1500 kg 1,4-dichlorobenzene eq."/kg
[E1312] trichlorfon to agricultural soil	610 kg 1,4-dichlorobenzene eq."/kg
[E1313] Trichloroethylene (tri) to agricultural soil	0.00039 kg 1,4-dichlorobenzene eq."/kg
[E1314] Trichloromethane=chloroform to agricultural soil	0.00024 kg 1,4-dichlorobenzene eq."/kg
[E1315] trifluarin to agricultural soil	33 kg 1,4-dichlorobenzene eq."/kg
[E1316] vanadium to agricultural soil	11000 kg 1,4-dichlorobenzene eq."/kg
[E1317] Vinyl Chloride (chloroethene) to agricultural soil	5.20E-05 kg 1,4-dichlorobenzene eq."/kg
[E1318] zinc to agricultural soil	120 kg 1,4-dichlorobenzene eq."/kg
[E1319] zineb to agricultural soil	300 kg 1,4-dichlorobenzene eq."/kg
[E1320] 1,1,1-trichloroethane to agricultural soil	0.00031 kg 1,4-dichlorobenzene eq."/kg

[E1321] 1,2,3,4-tetrachlorobenzene to agricultural soil	0.12 kg 1,4-dichlorobenzene eq."/kg
[E1322] 1,2,3,5-tetrachlorobenzene to agricultural soil	0.21 kg 1,4-dichlorobenzene eq."/kg
[E1323] 1,2,3-trichlorobenzene to agricultural soil	0.033 kg 1,4-dichlorobenzene eq."/kg
[E1324] 1,2,4,5-tetrachlorobenzene to agricultural soil	0.1 kg 1,4-dichlorobenzene eq."/kg
[E1325] 1,2,4-trichlorobenzene to agricultural soil	0.036 kg 1,4-dichlorobenzene eq."/kg
[E1326] 1,2-dichlorobenzene to agricultural soil	0.018 kg 1,4-dichlorobenzene eq."/kg
[E1327] 1,2-dichloroethane to agricultural soil	0.00063 kg 1,4-dichlorobenzene eq."/kg
[E1328] 1,3,5-trichlorobenzene to agricultural soil	0.069 kg 1,4-dichlorobenzene eq."/kg
[E1329] 1,3-butadiene to agricultural soil	3.80E-05 kg 1,4-dichlorobenzene eq."/kg
[E1330] 1,3-dichlorobenzene to agricultural soil	0.016 kg 1,4-dichlorobenzene eq."/kg
[E1331] 1,4-dichlorobenzene to agricultural soil	0.014 kg 1,4-dichlorobenzene eq."/kg
[E1332] 1-chloro-4-nitrobenzene to agricultural soil	130 kg 1,4-dichlorobenzene eq."/kg
[E1333] 2,3,4,6-tetrachlorophenol to agricultural soil	130 kg 1,4-dichlorobenzene eq."/kg
[E1334] 2,3,7,8-TCDD to agricultural soil	1.60E+06 kg 1,4-dichlorobenzene eq."/kg
[E1335] 2,4,5-T to agricultural soil	1.1 kg 1,4-dichlorobenzene eq."/kg
[E1336] 2,4,5-trichlorophenol to agricultural soil	120 kg 1,4-dichlorobenzene eq."/kg
[E1337] 2,4,6-trichlorophenol to industrial soil	4.7 kg 1,4-dichlorobenzene eq."/kg
[E1338] 2,4-D to industrial soil	61 kg 1,4-dichlorobenzene eq."/kg
[E1339] 2,4-dichlorophenol to industrial soil	3.6 kg 1,4-dichlorobenzene eq."/kg
[E1340] 2-chlorophenol to industrial soil	24 kg 1,4-dichlorobenzene eq."/kg
[E1341] 3,4-dichloroaniline to industrial soil	5000 kg 1,4-dichlorobenzene eq."/kg
[E1342] 3-chloroaniline to industrial soil	230 kg 1,4-dichlorobenzene eq."/kg
[E1343] 4-chloroaniline to industrial soil	420 kg 1,4-dichlorobenzene eq."/kg
[E1344] acephate to industrial soil	81 kg 1,4-dichlorobenzene eq."/kg
[E1345] Acrolein (2-propenal) to industrial soil	34000 kg 1,4-dichlorobenzene eq."/kg
[E1346] acrylonitrile to industrial soil	5.3 kg 1,4-dichlorobenzene eq."/kg
[E1347] aldicarb to industrial soil	76000 kg 1,4-dichlorobenzene eq."/kg
[E1348] aldrin to industrial soil	25 kg 1,4-dichlorobenzene eq."/kg
[E1350] anilazine to industrial soil	0.055 kg 1,4-dichlorobenzene eq."/kg
[E1351] anthracene to industrial soil	450 kg 1,4-dichlorobenzene eq."/kg
[E1352] antimony to industrial soil	24 kg 1,4-dichlorobenzene eq."/kg
[E1353] arsenic to industrial soil	340 kg 1,4-dichlorobenzene eq."/kg
[E1354] atrazine to industrial soil	800 kg 1,4-dichlorobenzene eq."/kg
[E1355] azinphos-ethyl to industrial soil	2700 kg 1,4-dichlorobenzene eq."/kg
[E1356] azinphos-methyl to industrial soil	4100 kg 1,4-dichlorobenzene eq."/kg
[E1357] barium to industrial soil	260 kg 1,4-dichlorobenzene eq."/kg
[E1358] benomyl to industrial soil	2.4 kg 1,4-dichlorobenzene eq."/kg
[E1359] bentazone to industrial soil	8.8 kg 1,4-dichlorobenzene eq."/kg
[E1360] benzene to industrial soil	0.00054 kg 1,4-dichlorobenzene eq."/kg
[E1361] benzo[a]anthracene to industrial soil	740 kg 1,4-dichlorobenzene eq."/kg
[E1362] benzo[a]pyrene to industrial soil	1500 kg 1,4-dichlorobenzene eq."/kg
[E1363] benzo[ghi]perylene to industrial soil	780 kg 1,4-dichlorobenzene eq."/kg
[E1364] benzo[k]fluoranthrene to industrial soil	68000 kg 1,4-dichlorobenzene eq."/kg
[E1365] benzylchloride to industrial soil	0.47 kg 1,4-dichlorobenzene eq."/kg
[E1366] beryllium to industrial soil	54000 kg 1,4-dichlorobenzene eq."/kg
[E1367] bifenthrin to industrial soil	1200 kg 1,4-dichlorobenzene eq."/kg
[E1368] Butylbenzylphtalate to industrial soil	0.033 kg 1,4-dichlorobenzene eq."/kg
[E1369] cadmium to industrial soil	2000 kg 1,4-dichlorobenzene eq."/kg
[E1370] captafol to industrial soil	1.20E+05 kg 1,4-dichlorobenzene eq."/kg
[E1371] captan to industrial soil	0.041 kg 1,4-dichlorobenzene eq."/kg
[E1372] carbaryl to industrial soil	36 kg 1,4-dichlorobenzene eq."/kg
[E1373] carbendazim to industrial soil	6200 kg 1,4-dichlorobenzene eq."/kg
[E1374] carbofuran to industrial soil	1100 kg 1,4-dichlorobenzene eq."/kg
[E1375] carbon disulfide to industrial soil	0.28 kg 1,4-dichlorobenzene eq."/kg
[E1376] Carcinogenic PAHs to industrial soil	750 kg 1,4-dichlorobenzene eq."/kg
[E1377] chlordane to industrial soil	38 kg 1,4-dichlorobenzene eq."/kg
[E1378] chlorfenvinphos to industrial soil	50 kg 1,4-dichlorobenzene eq."/kg
[E1379] chloridazon to industrial soil	3.1 kg 1,4-dichlorobenzene eq."/kg
[E1380] chlorobenzene to industrial soil	0.003 kg 1,4-dichlorobenzene eq."/kg
[E1381] chlorothalonil to industrial soil	2.6 kg 1,4-dichlorobenzene eq."/kg
[E1382] chlorpropham to industrial soil	5.5 kg 1,4-dichlorobenzene eq."/kg
[E1383] chlorpyriphos to industrial soil	930 kg 1,4-dichlorobenzene eq."/kg
[E1384] chromium III to industrial soil	13 kg 1,4-dichlorobenzene eq."/kg
[E1385] chromium VI to industrial soil	54 kg 1,4-dichlorobenzene eq."/kg
[E1386] chrysene to industrial soil	930 kg 1,4-dichlorobenzene eq."/kg
[E1387] cobalt to industrial soil	2800 kg 1,4-dichlorobenzene eq."/kg
[E1388] copper to industrial soil	1500 kg 1,4-dichlorobenzene eq."/kg

[E1389] coumaphos to industrial soil	4.40E+06 kg 1,4-dichlorobenzene eq."/kg
[E1390] cyanazine to industrial soil	2300 kg 1,4-dichlorobenzene eq."/kg
[E1391] cypermethrin to industrial soil	1.30E+06 kg 1,4-dichlorobenzene eq."/kg
[E1392] cyromazine to industrial soil	5200 kg 1,4-dichlorobenzene eq."/kg
[E1393] DDT to industrial soil	370 kg 1,4-dichlorobenzene eq."/kg
[E1394] deltamethrin to industrial soil	150 kg 1,4-dichlorobenzene eq."/kg
[E1395] demeton to industrial soil	1800 kg 1,4-dichlorobenzene eq."/kg
[E1396] desmetryn to industrial soil	6.6 kg 1,4-dichlorobenzene eq."/kg
[E1397] Di(2-ethylhexyl)phtalate to industrial soil	0.0079 kg 1,4-dichlorobenzene eq."/kg
[E1398] diazinon to industrial soil	3300 kg 1,4-dichlorobenzene eq."/kg
[E1399] Dibutylphtalate to industrial soil	0.041 kg 1,4-dichlorobenzene eq."/kg
[E1400] Dichloromethane (Methylene Chloride) to industrial soil	0.00011 kg 1,4-dichlorobenzene eq."/kg
[E1401] dichlorprop to industrial soil	0.027 kg 1,4-dichlorobenzene eq."/kg
[E1402] dichlorvos to industrial soil	13 kg 1,4-dichlorobenzene eq."/kg
[E1403] dieldrin to industrial soil	240 kg 1,4-dichlorobenzene eq."/kg
[E1404] Diethylphtalate to industrial soil	0.41 kg 1,4-dichlorobenzene eq."/kg
[E1405] Dihexylphtalate to industrial soil	0.18 kg 1,4-dichlorobenzene eq."/kg
[E1406] Diisodecylphtalate to industrial soil	0.041 kg 1,4-dichlorobenzene eq."/kg
[E1407] Diisooctylphtalate to industrial soil	0.0055 kg 1,4-dichlorobenzene eq."/kg
[E1408] dimethoate to industrial soil	20 kg 1,4-dichlorobenzene eq."/kg
[E1409] Dimethylphtalate to industrial soil	0.0075 kg 1,4-dichlorobenzene eq."/kg
[E1410] dinoseb to industrial soil	16000 kg 1,4-dichlorobenzene eq."/kg
[E1411] dinoterb to industrial soil	590 kg 1,4-dichlorobenzene eq."/kg
[E1412] Dioctylphtalate to industrial soil	0.00028 kg 1,4-dichlorobenzene eq."/kg
[E1413] disulfothon to industrial soil	99 kg 1,4-dichlorobenzene eq."/kg
[E1414] diuron to industrial soil	99 kg 1,4-dichlorobenzene eq."/kg
[E1415] DNOC to industrial soil	0.75 kg 1,4-dichlorobenzene eq."/kg
[E1416] endosulfan to industrial soil	1.9 kg 1,4-dichlorobenzene eq."/kg
[E1417] endrin to industrial soil	22000 kg 1,4-dichlorobenzene eq."/kg
[E1418] ethoprophos to industrial soil	24000 kg 1,4-dichlorobenzene eq."/kg
[E1419] ethylbenzene to industrial soil	0.0012 kg 1,4-dichlorobenzene eq."/kg
[E1420] ethylene to industrial soil	7.10E-10 kg 1,4-dichlorobenzene eq."/kg
[E1421] fenitrothion to industrial soil	1700 kg 1,4-dichlorobenzene eq."/kg
[E1422] fenthion to industrial soil	9900 kg 1,4-dichlorobenzene eq."/kg
[E1423] fentin acetate to industrial soil	2500 kg 1,4-dichlorobenzene eq."/kg
[E1424] fentin chloride to industrial soil	1600 kg 1,4-dichlorobenzene eq."/kg
[E1425] fentin hydroxide to industrial soil	2500 kg 1,4-dichlorobenzene eq."/kg
[E1426] fluoranthrene to industrial soil	230 kg 1,4-dichlorobenzene eq."/kg
[E1427] folpet to industrial soil	18000 kg 1,4-dichlorobenzene eq."/kg
[E1428] Formaldehyde (methanal) to industrial soil	24 kg 1,4-dichlorobenzene eq."/kg
[E1429] glyphosate to industrial soil	3.6 kg 1,4-dichlorobenzene eq."/kg
[E1430] heptachlor to industrial soil	13 kg 1,4-dichlorobenzene eq."/kg
[E1431] heptenophos to industrial soil	15 kg 1,4-dichlorobenzene eq."/kg
[E1432] hexachloro-1,3-butadiene to industrial soil	97 kg 1,4-dichlorobenzene eq."/kg
[E1433] hexachlorobenzene to industrial soil	14 kg 1,4-dichlorobenzene eq."/kg
[E1436] indeno[1,2,3-cd]pyrene to industrial soil	1200 kg 1,4-dichlorobenzene eq."/kg
[E1437] iprodione to industrial soil	0.16 kg 1,4-dichlorobenzene eq."/kg
[E1438] isoproturon to industrial soil	150 kg 1,4-dichlorobenzene eq."/kg
[E1439] lead to industrial soil	17 kg 1,4-dichlorobenzene eq."/kg
[E1440] lindane to industrial soil	97 kg 1,4-dichlorobenzene eq."/kg
[E1441] linuron to industrial soil	2400 kg 1,4-dichlorobenzene eq."/kg
[E1442] malathion to industrial soil	380 kg 1,4-dichlorobenzene eq."/kg
[E1443] MCPA to industrial soil	1.1 kg 1,4-dichlorobenzene eq."/kg
[E1444] mecoprop to industrial soil	53 kg 1,4-dichlorobenzene eq."/kg
[E1445] mercury to industrial soil	2200 kg 1,4-dichlorobenzene eq."/kg
[E1446] metamitron to industrial soil	0.79 kg 1,4-dichlorobenzene eq."/kg
[E1447] metazachlor to industrial soil	9.8 kg 1,4-dichlorobenzene eq."/kg
[E1448] methabenzthiazuron to industrial soil	150 kg 1,4-dichlorobenzene eq."/kg
[E1449] methomyl to industrial soil	21000 kg 1,4-dichlorobenzene eq."/kg
[E1450] methylbromide to industrial soil	0.073 kg 1,4-dichlorobenzene eq."/kg
[E1451] methyl-mercury to industrial soil	50000 kg 1,4-dichlorobenzene eq."/kg
[E1452] metobromuron to industrial soil	92 kg 1,4-dichlorobenzene eq."/kg
[E1453] metolachlor to industrial soil	5200 kg 1,4-dichlorobenzene eq."/kg
[E1454] mevinphos to industrial soil	180 kg 1,4-dichlorobenzene eq."/kg
[E1455] molybdenum to industrial soil	580 kg 1,4-dichlorobenzene eq."/kg
[E1456] m-xylene to industrial soil	0.0012 kg 1,4-dichlorobenzene eq."/kg
[E1457] naphtalene to industrial soil	4.9 kg 1,4-dichlorobenzene eq."/kg

[E1458] nickel to industrial soil	4300 kg 1,4-dichlorobenzene eq."/kg
[E1460] oxamyl to industrial soil	55 kg 1,4-dichlorobenzene eq."/kg
[E1461] oxydemethon-methyl to industrial soil	810 kg 1,4-dichlorobenzene eq."/kg
[E1462] o-xylene to industrial soil	0.002 kg 1,4-dichlorobenzene eq."/kg
[E1463] parathion-ethyl to industrial soil	1300 kg 1,4-dichlorobenzene eq."/kg
[E1464] parathion-methyl to industrial soil	260 kg 1,4-dichlorobenzene eq."/kg
[E1465] pentachlorobenzene to industrial soil	1.6 kg 1,4-dichlorobenzene eq."/kg
[E1466] pentachloronitrobenzene to industrial soil	17 kg 1,4-dichlorobenzene eq."/kg
[E1467] pentachlorophenol to industrial soil	3 kg 1,4-dichlorobenzene eq."/kg
[E1468] permethrin to industrial soil	4800 kg 1,4-dichlorobenzene eq."/kg
[E1469] phenanthrene to industrial soil	1.3 kg 1,4-dichlorobenzene eq."/kg
[E1470] phenol to industrial soil	4.7 kg 1,4-dichlorobenzene eq."/kg
[E1471] phoxim to industrial soil	1.3 kg 1,4-dichlorobenzene eq."/kg
[E1472] Phtalic anhydride to industrial soil	6.30E-08 kg 1,4-dichlorobenzene eq."/kg
[E1473] pirimicarb to industrial soil	5300 kg 1,4-dichlorobenzene eq."/kg
[E1475] propachlor to industrial soil	34 kg 1,4-dichlorobenzene eq."/kg
[E1476] propoxur to industrial soil	38000 kg 1,4-dichlorobenzene eq."/kg
[E1477] propylene oxide to industrial soil	0.25 kg 1,4-dichlorobenzene eq."/kg
[E1478] p-xylene to industrial soil	0.00087 kg 1,4-dichlorobenzene eq."/kg
[E1479] pyrazophos to industrial soil	900 kg 1,4-dichlorobenzene eq."/kg
[E1480] selenium to industrial soil	1700 kg 1,4-dichlorobenzene eq."/kg
[E1481] simazine to industrial soil	4800 kg 1,4-dichlorobenzene eq."/kg
[E1482] styrene (vinylbenzene) to industrial soil	0.0018 kg 1,4-dichlorobenzene eq."/kg
[E1484] tetrachloroethylene (PER) to industrial soil	0.043 kg 1,4-dichlorobenzene eq."/kg
[E1485] Tetrachloromethane (carbon tetrachloride) (HC-10) to industrial soil	0.00032 kg 1,4-dichlorobenzene eq."/kg
[E1486] thallium to industrial soil	11000 kg 1,4-dichlorobenzene eq."/kg
[E1487] Thiram to industrial soil	1600 kg 1,4-dichlorobenzene eq."/kg
[E1488] tin to industrial soil	3.5 kg 1,4-dichlorobenzene eq."/kg
[E1489] tolclophos-methyl to industrial soil	9.9 kg 1,4-dichlorobenzene eq."/kg
[E1490] toluene to industrial soil	0.00075 kg 1,4-dichlorobenzene eq."/kg
[E1491] tri-allate to industrial soil	70 kg 1,4-dichlorobenzene eq."/kg
[E1492] triazophos to industrial soil	18000 kg 1,4-dichlorobenzene eq."/kg
[E1493] tributyltinoxide to industrial soil	5700 kg 1,4-dichlorobenzene eq."/kg
[E1494] trichlorfon to industrial soil	3400 kg 1,4-dichlorobenzene eq."/kg
[E1495] Trichloroethylene (tri) to industrial soil	0.00039 kg 1,4-dichlorobenzene eq."/kg
[E1496] Trichloromethane=chloroform to industrial soil	0.00024 kg 1,4-dichlorobenzene eq."/kg
[E1497] trifluarin to industrial soil	130 kg 1,4-dichlorobenzene eq."/kg
[E1498] vanadium to industrial soil	11000 kg 1,4-dichlorobenzene eq."/kg
[E1499] Vinyl Chloride (chloroethene) to industrial soil	5.20E-05 kg 1,4-dichlorobenzene eq."/kg
[E1500] zinc to industrial soil	120 kg 1,4-dichlorobenzene eq."/kg
[E1501] zineb to industrial soil	1100 kg 1,4-dichlorobenzene eq."/kg

Category = [C9] Sediment ecotoxicity salt water
Description = Problem oriented approach, manual 1999; SETP
Author = Huijbregts, 1999
Date = 27-09-1999

Environmental resources

Environmental resource	Value	Unit

Environmental emissions

Environmental emission	Value	Unit
[E90] 1,1,1-trichloroethane (methyl chloroform; HC-140a) to air	0.11	kg 1,4-dichlorobenzene eq."/kg
[E94] 1,2,3,4-tetrachlorobenzene to air	6.9	kg 1,4-dichlorobenzene eq."/kg
[E95] 1,2,3,5-tetrachlorobenzene to air	7	kg 1,4-dichlorobenzene eq."/kg
[E96] 1,2,3-trichlorobenzene to air	0.85	kg 1,4-dichlorobenzene eq."/kg
[E98] 1,2,4,5-tetrachlorobenzene to air	6.1	kg 1,4-dichlorobenzene eq."/kg
[E99] 1,2,4-trichlorobenzene to air	0.84	kg 1,4-dichlorobenzene eq."/kg
[E102] 1,2-dichlorobenzene to air	0.28	kg 1,4-dichlorobenzene eq."/kg
[E103] 1,2-dichloroethane to air	0.031	kg 1,4-dichlorobenzene eq."/kg
[E107] 1,3,5-trichlorobenzene to air	1.3	kg 1,4-dichlorobenzene eq."/kg
[E111] 1,3-Butadiene to air	3.00E-06	kg 1,4-dichlorobenzene eq."/kg
[E112] 1,3-dichlorobenzene to air	0.2	kg 1,4-dichlorobenzene eq."/kg
[E116] 1,4-dichlorobenzene to air	0.29	kg 1,4-dichlorobenzene eq."/kg
[E128] 1-chloro-4-nitrobenzene to air	240	kg 1,4-dichlorobenzene eq."/kg
[E166] 2,3,4,6-tetrachlorophenol to air	110	kg 1,4-dichlorobenzene eq."/kg

[E168] 2,3,7,8-TCDD (tetrachloride-dibenzo-dioxin) to air	8.10E+08 kg 1,4-dichlorobenzene eq."/kg
[E172] 2,4,5-T to air	0.25 kg 1,4-dichlorobenzene eq."/kg
[E173] 2,4,5-trichlorophenol to air	48 kg 1,4-dichlorobenzene eq."/kg
[E174] 2,4,6-trichlorophenol to air	4.3 kg 1,4-dichlorobenzene eq."/kg
[E175] 2,4-D to air	7.3 kg 1,4-dichlorobenzene eq."/kg
[E176] 2,4-dichlorophenol to air	0.52 kg 1,4-dichlorobenzene eq."/kg
[E185] 2-chlorophenol to air	13 kg 1,4-dichlorobenzene eq."/kg
[E208] 3,4-dichloroaniline to air	2100 kg 1,4-dichlorobenzene eq."/kg
[E217] 3-chloroaniline to air	32 kg 1,4-dichlorobenzene eq."/kg
[E228] 4-chloroaniline to air	2.3 kg 1,4-dichlorobenzene eq."/kg
[E231] acephate to air	18 kg 1,4-dichlorobenzene eq."/kg
[E236] Acrolein (2-propenal) to air	750 kg 1,4-dichlorobenzene eq."/kg
[E237] Acrylonitrile to air	0.77 kg 1,4-dichlorobenzene eq."/kg
[E241] aldicarb to air	12000 kg 1,4-dichlorobenzene eq."/kg
[E242] aldrin to air	5.4 kg 1,4-dichlorobenzene eq."/kg
[E251] anilazine to air	0.34 kg 1,4-dichlorobenzene eq."/kg
[E252] anthracene to air	2100 kg 1,4-dichlorobenzene eq."/kg
[E253] antimony to air	31000 kg 1,4-dichlorobenzene eq."/kg
[E255] arsenic to air	2.30E+05 kg 1,4-dichlorobenzene eq."/kg
[E256] atrazine to air	310 kg 1,4-dichlorobenzene eq."/kg
[E257] azinphos-ethyl to air	130 kg 1,4-dichlorobenzene eq."/kg
[E258] azinphos-methyl to air	57 kg 1,4-dichlorobenzene eq."/kg
[E259] barium to air	6.70E+05 kg 1,4-dichlorobenzene eq."/kg
[E260] benomyl to air	1.8 kg 1,4-dichlorobenzene eq."/kg
[E261] bentazone to air	0.94 kg 1,4-dichlorobenzene eq."/kg
[E263] Benzene to air	0.0013 kg 1,4-dichlorobenzene eq."/kg
[E264] benzo[a]anthracene to air	3400 kg 1,4-dichlorobenzene eq."/kg
[E265] benzo[a]pyrene to air	4100 kg 1,4-dichlorobenzene eq."/kg
[E266] benzo[ghi]perylene to air	5700 kg 1,4-dichlorobenzene eq."/kg
[E267] benzo[k]fluoranthrene to air	3.50E+05 kg 1,4-dichlorobenzene eq."/kg
[E269] benzylchloride to air	0.33 kg 1,4-dichlorobenzene eq."/kg
[E270] beryllium to air	2.00E+08 kg 1,4-dichlorobenzene eq."/kg
[E272] bifenthrin to air	3700 kg 1,4-dichlorobenzene eq."/kg
[E290] Butylbenzylphtalate to air	0.071 kg 1,4-dichlorobenzene eq."/kg
[E385] cadmium to air	1.10E+06 kg 1,4-dichlorobenzene eq."/kg
[E387] captafol to air	39000 kg 1,4-dichlorobenzene eq."/kg
[E388] captan to air	0.12 kg 1,4-dichlorobenzene eq."/kg
[E389] carbaryl to air	1 kg 1,4-dichlorobenzene eq."/kg
[E390] carbendazim to air	1100 kg 1,4-dichlorobenzene eq."/kg
[E391] carbofuran to air	160 kg 1,4-dichlorobenzene eq."/kg
[E394] carbon disulfide to air	0.86 kg 1,4-dichlorobenzene eq."/kg
[E404] chlordane to air	1600 kg 1,4-dichlorobenzene eq."/kg
[E405] chlorfenvinphos to air	13 kg 1,4-dichlorobenzene eq."/kg
[E406] chloridazon to air	0.26 kg 1,4-dichlorobenzene eq."/kg
[E407] chlorobenzene to air	0.05 kg 1,4-dichlorobenzene eq."/kg
[E410] chlorothalonil to air	15 kg 1,4-dichlorobenzene eq."/kg
[E411] chlorpropham to air	0.81 kg 1,4-dichlorobenzene eq."/kg
[E412] chlorpyriphos to air	6 kg 1,4-dichlorobenzene eq."/kg
[E413] chromium (unspecified) to air	5300 kg 1,4-dichlorobenzene eq."/kg
[E414] chromium III to air	5300 kg 1,4-dichlorobenzene eq."/kg
[E415] chromium VI to air	21000 kg 1,4-dichlorobenzene eq."/kg
[E416] chrysene to air	1400 kg 1,4-dichlorobenzene eq."/kg
[E421] cobalt to air	3.50E+06 kg 1,4-dichlorobenzene eq."/kg
[E422] copper to air	8.80E+05 kg 1,4-dichlorobenzene eq."/kg
[E423] coumaphos to air	4.80E+05 kg 1,4-dichlorobenzene eq."/kg
[E425] cyanazine to air	810 kg 1,4-dichlorobenzene eq."/kg
[E437] cypermethrin to air	49000 kg 1,4-dichlorobenzene eq."/kg
[E438] cyromazine to air	1300 kg 1,4-dichlorobenzene eq."/kg
[E439] DDT to air	25000 kg 1,4-dichlorobenzene eq."/kg
[E441] deltamethrin to air	6800 kg 1,4-dichlorobenzene eq."/kg
[E442] demeton to air	11 kg 1,4-dichlorobenzene eq."/kg
[E443] desmetryn to air	2.6 kg 1,4-dichlorobenzene eq."/kg
[E444] Di(2-ethylhexyl)phtalate to air	1.7 kg 1,4-dichlorobenzene eq."/kg
[E446] diazinon to air	110 kg 1,4-dichlorobenzene eq."/kg
[E448] Dibutylphtalate to air	0.038 kg 1,4-dichlorobenzene eq."/kg
[E449] Dichloromethane (Methylene Chloride) to air	0.0014 kg 1,4-dichlorobenzene eq."/kg
[E450] dichlorprop to air	0.032 kg 1,4-dichlorobenzene eq."/kg

[E451] dichlorvos to air	27 kg 1,4-dichlorobenzene eq."/kg
[E452] dieldrin to air	170 kg 1,4-dichlorobenzene eq."/kg
[E456] Diethylphtalate to air	0.23 kg 1,4-dichlorobenzene eq."/kg
[E457] Dihexylphtalate to air	3.2 kg 1,4-dichlorobenzene eq."/kg
[E458] Diisodecylphtalate to air	7.5 kg 1,4-dichlorobenzene eq."/kg
[E459] Diisooctylphtalate to air	5.6 kg 1,4-dichlorobenzene eq."/kg
[E461] dimethoate to air	2 kg 1,4-dichlorobenzene eq."/kg
[E468] Dimethylphtalate to air	0.0062 kg 1,4-dichlorobenzene eq."/kg
[E470] dinoseb to air	1500 kg 1,4-dichlorobenzene eq."/kg
[E471] dinoterb to air	2100 kg 1,4-dichlorobenzene eq."/kg
[E472] Dioctylphtalate to air	0.52 kg 1,4-dichlorobenzene eq."/kg
[E475] disulfothon to air	5.7 kg 1,4-dichlorobenzene eq."/kg
[E476] diuron to air	5.7 kg 1,4-dichlorobenzene eq."/kg
[E478] DNOC to air	0.3 kg 1,4-dichlorobenzene eq."/kg
[E480] endosulfan to air	1.2 kg 1,4-dichlorobenzene eq."/kg
[E481] endrin to air	3500 kg 1,4-dichlorobenzene eq."/kg
[E487] ethoprophos to air	930 kg 1,4-dichlorobenzene eq."/kg
[E496] Ethylbenzene to air	0.00061 kg 1,4-dichlorobenzene eq."/kg
[E499] Ethylene (ethene) to air	7.10E-11 kg 1,4-dichlorobenzene eq."/kg
[E504] fenitrothion to air	750 kg 1,4-dichlorobenzene eq."/kg
[E505] fenthion to air	1100 kg 1,4-dichlorobenzene eq."/kg
[E506] fentin acetate to air	53000 kg 1,4-dichlorobenzene eq."/kg
[E507] fentin chloride to air	57000 kg 1,4-dichlorobenzene eq."/kg
[E508] fentin hydroxide to air	51000 kg 1,4-dichlorobenzene eq."/kg
[E509] fluoranthrene to air	610 kg 1,4-dichlorobenzene eq."/kg
[E510] folpet to air	2700 kg 1,4-dichlorobenzene eq."/kg
[E511] Formaldehyde (methanal) to air	1.5 kg 1,4-dichlorobenzene eq."/kg
[E516] glyphosate to air	15 kg 1,4-dichlorobenzene eq."/kg
[E533] heptachlor to air	2.4 kg 1,4-dichlorobenzene eq."/kg
[E535] heptenophos to air	15 kg 1,4-dichlorobenzene eq."/kg
[E536] hexachloro-1,3-butadiene to air	29000 kg 1,4-dichlorobenzene eq."/kg
[E537] hexachlorobenzene to air	2800 kg 1,4-dichlorobenzene eq."/kg
[E566] indeno[1,2,3-cd]pyrene to air	25000 kg 1,4-dichlorobenzene eq."/kg
[E568] iprodione to air	0.0052 kg 1,4-dichlorobenzene eq."/kg
[E583] isoproturon to air	20 kg 1,4-dichlorobenzene eq."/kg
[E584] lead to air	7200 kg 1,4-dichlorobenzene eq."/kg
[E585] lindane to air	9.2 kg 1,4-dichlorobenzene eq."/kg
[E586] linuron to air	35 kg 1,4-dichlorobenzene eq."/kg
[E587] malathion to air	780 kg 1,4-dichlorobenzene eq."/kg
[E589] MCPA to air	0.35 kg 1,4-dichlorobenzene eq."/kg
[E590] mecoprop to air	5.3 kg 1,4-dichlorobenzene eq."/kg
[E592] mercury to air	1.20E+06 kg 1,4-dichlorobenzene eq."/kg
[E595] metamitron to air	0.19 kg 1,4-dichlorobenzene eq."/kg
[E596] meta-Xylene (1,3-dimethylbenzene) to air	0.00035 kg 1,4-dichlorobenzene eq."/kg
[E597] metazachlor to air	2.6 kg 1,4-dichlorobenzene eq."/kg
[E598] methabenzthiazuron to air	8372 kg 1,4-dichlorobenzene eq."/kg
[E603] methomyl to air	5000 kg 1,4-dichlorobenzene eq."/kg
[E626] methyl-mercury to air	2.80E+07 kg 1,4-dichlorobenzene eq."/kg
[E628] metobromuron to air	47 kg 1,4-dichlorobenzene eq."/kg
[E629] metolachlor to air	250 kg 1,4-dichlorobenzene eq."/kg
[E630] mevinphos to air	600 kg 1,4-dichlorobenzene eq."/kg
[E632] molybdenum to air	1.60E+06 kg 1,4-dichlorobenzene eq."/kg
[E633] Naphtalene to air	0.32 kg 1,4-dichlorobenzene eq."/kg
[E635] nickel to air	3.70E+06 kg 1,4-dichlorobenzene eq."/kg
[E650] ortho-Xylene (1,2-dimethylbenzene) to air	0.00099 kg 1,4-dichlorobenzene eq."/kg
[E651] oxamyl to air	0.4 kg 1,4-dichlorobenzene eq."/kg
[E652] oxydemethon-methyl to air	210 kg 1,4-dichlorobenzene eq."/kg
[E655] parathion-ethyl to air	1300 kg 1,4-dichlorobenzene eq."/kg
[E656] parathion-methyl to air	30 kg 1,4-dichlorobenzene eq."/kg
[E658] para-Xylene (1,4-dimethylbenzene) to air	0.00038 kg 1,4-dichlorobenzene eq."/kg
[E660] pentachlorobenzene to air	87 kg 1,4-dichlorobenzene eq."/kg
[E661] pentachloronitrobenzene to air	440 kg 1,4-dichlorobenzene eq."/kg
[E662] pentachlorophenol to air	69 kg 1,4-dichlorobenzene eq."/kg
[E672] permethrin to air	23000 kg 1,4-dichlorobenzene eq."/kg
[E674] phenanthrene to air	5.4 kg 1,4-dichlorobenzene eq."/kg
[E675] Phenol to air	0.36 kg 1,4-dichlorobenzene eq."/kg
[E679] phoxim to air	0.21 kg 1,4-dichlorobenzene eq."/kg

[E168] 2,3,7,8-TCDD (tetrachloride-dibenzo-dioxin) to air	8.10E+08 kg 1,4-dichlorobenzene eq."/kg
[E172] 2,4,5-T to air	0.25 kg 1,4-dichlorobenzene eq."/kg
[E173] 2,4,5-trichlorophenol to air	48 kg 1,4-dichlorobenzene eq."/kg
[E174] 2,4,6-trichlorophenol to air	4.3 kg 1,4-dichlorobenzene eq."/kg
[E175] 2,4-D to air	7.3 kg 1,4-dichlorobenzene eq."/kg
[E176] 2,4-dichlorophenol to air	0.52 kg 1,4-dichlorobenzene eq."/kg
[E185] 2-chlorophenol to air	13 kg 1,4-dichlorobenzene eq."/kg
[E208] 3,4-dichloroaniline to air	2100 kg 1,4-dichlorobenzene eq."/kg
[E217] 3-chloroaniline to air	32 kg 1,4-dichlorobenzene eq."/kg
[E228] 4-chloroaniline to air	2.3 kg 1,4-dichlorobenzene eq."/kg
[E231] acephate to air	18 kg 1,4-dichlorobenzene eq."/kg
[E236] Acrolein (2-propenal) to air	750 kg 1,4-dichlorobenzene eq."/kg
[E237] Acrylonitrile to air	0.77 kg 1,4-dichlorobenzene eq."/kg
[E241] aldicarb to air	12000 kg 1,4-dichlorobenzene eq."/kg
[E242] aldrin to air	5.4 kg 1,4-dichlorobenzene eq."/kg
[E251] anilazine to air	0.34 kg 1,4-dichlorobenzene eq."/kg
[E252] anthracene to air	2100 kg 1,4-dichlorobenzene eq."/kg
[E253] antimony to air	31000 kg 1,4-dichlorobenzene eq."/kg
[E255] arsenic to air	2.30E+05 kg 1,4-dichlorobenzene eq."/kg
[E256] atrazine to air	310 kg 1,4-dichlorobenzene eq."/kg
[E257] azinphos-ethyl to air	130 kg 1,4-dichlorobenzene eq."/kg
[E258] azinphos-methyl to air	57 kg 1,4-dichlorobenzene eq."/kg
[E259] barium to air	6.70E+05 kg 1,4-dichlorobenzene eq."/kg
[E260] benomyl to air	1.8 kg 1,4-dichlorobenzene eq."/kg
[E261] bentazone to air	0.94 kg 1,4-dichlorobenzene eq."/kg
[E263] Benzene to air	0.0013 kg 1,4-dichlorobenzene eq."/kg
[E264] benzo[a]anthracene to air	3400 kg 1,4-dichlorobenzene eq."/kg
[E265] benzo[a]pyrene to air	4100 kg 1,4-dichlorobenzene eq."/kg
[E266] benzo[ghi]perylene to air	5700 kg 1,4-dichlorobenzene eq."/kg
[E267] benzo[k]fluoranthrene to air	3.50E+05 kg 1,4-dichlorobenzene eq."/kg
[E269] benzylchloride to air	0.33 kg 1,4-dichlorobenzene eq."/kg
[E270] beryllium to air	2.00E+08 kg 1,4-dichlorobenzene eq."/kg
[E272] bifenthrin to air	3700 kg 1,4-dichlorobenzene eq."/kg
[E290] Butylbenzylphtalate to air	0.071 kg 1,4-dichlorobenzene eq."/kg
[E385] cadmium to air	1.10E+06 kg 1,4-dichlorobenzene eq."/kg
[E387] captafol to air	39000 kg 1,4-dichlorobenzene eq."/kg
[E388] captan to air	0.12 kg 1,4-dichlorobenzene eq."/kg
[E389] carbaryl to air	1 kg 1,4-dichlorobenzene eq."/kg
[E390] carbendazim to air	1100 kg 1,4-dichlorobenzene eq."/kg
[E391] carbofuran to air	160 kg 1,4-dichlorobenzene eq."/kg
[E394] carbon disulfide to air	0.86 kg 1,4-dichlorobenzene eq."/kg
[E404] chlordane to air	1600 kg 1,4-dichlorobenzene eq."/kg
[E405] chlorfenvinphos to air	13 kg 1,4-dichlorobenzene eq."/kg
[E406] chloridazon to air	0.26 kg 1,4-dichlorobenzene eq."/kg
[E407] chlorobenzene to air	0.05 kg 1,4-dichlorobenzene eq."/kg
[E410] chlorothalonil to air	15 kg 1,4-dichlorobenzene eq."/kg
[E411] chlorpropham to air	0.81 kg 1,4-dichlorobenzene eq."/kg
[E412] chlorpyriphos to air	6 kg 1,4-dichlorobenzene eq."/kg
[E413] chromium (unspecified) to air	5300 kg 1,4-dichlorobenzene eq."/kg
[E414] chromium III to air	5300 kg 1,4-dichlorobenzene eq."/kg
[E415] chromium VI to air	21000 kg 1,4-dichlorobenzene eq."/kg
[E416] chrysene to air	1400 kg 1,4-dichlorobenzene eq."/kg
[E421] cobalt to air	3.50E+06 kg 1,4-dichlorobenzene eq."/kg
[E422] copper to air	8.80E+05 kg 1,4-dichlorobenzene eq."/kg
[E423] coumaphos to air	4.80E+05 kg 1,4-dichlorobenzene eq."/kg
[E425] cyanazine to air	810 kg 1,4-dichlorobenzene eq."/kg
[E437] cypermethrin to air	49000 kg 1,4-dichlorobenzene eq."/kg
[E438] cyromazine to air	1300 kg 1,4-dichlorobenzene eq."/kg
[E439] DDT to air	25000 kg 1,4-dichlorobenzene eq."/kg
[E441] deltamethrin to air	6800 kg 1,4-dichlorobenzene eq."/kg
[E442] demeton to air	11 kg 1,4-dichlorobenzene eq."/kg
[E443] desmetryn to air	2.6 kg 1,4-dichlorobenzene eq."/kg
[E444] Di(2-ethylhexyl)phtalate to air	1.7 kg 1,4-dichlorobenzene eq."/kg
[E446] diazinon to air	110 kg 1,4-dichlorobenzene eq."/kg
[E448] Dibutylphtalate to air	0.038 kg 1,4-dichlorobenzene eq."/kg
[E449] Dichloromethane (Methylene Chloride) to air	0.0014 kg 1,4-dichlorobenzene eq."/kg
[E450] dichlorprop to air	0.032 kg 1,4-dichlorobenzene eq."/kg

[E451] dichlorvos to air	27 kg 1,4-dichlorobenzene eq."/kg
[E452] dieldrin to air	170 kg 1,4-dichlorobenzene eq."/kg
[E456] Diethylphtalate to air	0.23 kg 1,4-dichlorobenzene eq."/kg
[E457] Dihexylphtalate to air	3.2 kg 1,4-dichlorobenzene eq."/kg
[E458] Diisodecylphtalate to air	7.5 kg 1,4-dichlorobenzene eq."/kg
[E459] Diisooctylphtalate to air	5.6 kg 1,4-dichlorobenzene eq."/kg
[E461] dimethoate to air	2 kg 1,4-dichlorobenzene eq."/kg
[E468] Dimethylphtalate to air	0.0062 kg 1,4-dichlorobenzene eq."/kg
[E470] dinoseb to air	1500 kg 1,4-dichlorobenzene eq."/kg
[E471] dinoterb to air	2100 kg 1,4-dichlorobenzene eq."/kg
[E472] Dioctylphtalate to air	0.52 kg 1,4-dichlorobenzene eq."/kg
[E475] disulfothon to air	5.7 kg 1,4-dichlorobenzene eq."/kg
[E476] diuron to air	5.7 kg 1,4-dichlorobenzene eq."/kg
[E478] DNOC to air	0.3 kg 1,4-dichlorobenzene eq."/kg
[E480] endosulfan to air	1.2 kg 1,4-dichlorobenzene eq."/kg
[E481] endrin to air	3500 kg 1,4-dichlorobenzene eq."/kg
[E487] ethoprophos to air	930 kg 1,4-dichlorobenzene eq."/kg
[E496] Ethylbenzene to air	0.00061 kg 1,4-dichlorobenzene eq."/kg
[E499] Ethylene (ethene) to air	7.10E-11 kg 1,4-dichlorobenzene eq."/kg
[E504] fenitrothion to air	750 kg 1,4-dichlorobenzene eq."/kg
[E505] fenthion to air	1100 kg 1,4-dichlorobenzene eq."/kg
[E506] fentin acetate to air	53000 kg 1,4-dichlorobenzene eq."/kg
[E507] fentin chloride to air	57000 kg 1,4-dichlorobenzene eq."/kg
[E508] fentin hydroxide to air	51000 kg 1,4-dichlorobenzene eq."/kg
[E509] fluoranthrene to air	610 kg 1,4-dichlorobenzene eq."/kg
[E510] folpet to air	2700 kg 1,4-dichlorobenzene eq."/kg
[E511] Formaldehyde (methanal) to air	1.5 kg 1,4-dichlorobenzene eq."/kg
[E516] glyphosate to air	15 kg 1,4-dichlorobenzene eq."/kg
[E533] heptachlor to air	2.4 kg 1,4-dichlorobenzene eq."/kg
[E535] heptenophos to air	15 kg 1,4-dichlorobenzene eq."/kg
[E536] hexachloro-1,3-butadiene to air	29000 kg 1,4-dichlorobenzene eq."/kg
[E537] hexachlorobenzene to air	2800 kg 1,4-dichlorobenzene eq."/kg
[E566] indeno[1,2,3-cd]pyrene to air	25000 kg 1,4-dichlorobenzene eq."/kg
[E568] iprodione to air	0.0052 kg 1,4-dichlorobenzene eq."/kg
[E583] isoproturon to air	20 kg 1,4-dichlorobenzene eq."/kg
[E584] lead to air	7200 kg 1,4-dichlorobenzene eq."/kg
[E585] lindane to air	9.2 kg 1,4-dichlorobenzene eq."/kg
[E586] linuron to air	35 kg 1,4-dichlorobenzene eq."/kg
[E587] malathion to air	780 kg 1,4-dichlorobenzene eq."/kg
[E589] MCPA to air	0.35 kg 1,4-dichlorobenzene eq."/kg
[E590] mecoprop to air	5.3 kg 1,4-dichlorobenzene eq."/kg
[E592] mercury to air	1.20E+06 kg 1,4-dichlorobenzene eq."/kg
[E595] metamitron to air	0.19 kg 1,4-dichlorobenzene eq."/kg
[E596] meta-Xylene (1,3-dimethylbenzene) to air	0.00035 kg 1,4-dichlorobenzene eq."/kg
[E597] metazachlor to air	2.6 kg 1,4-dichlorobenzene eq."/kg
[E598] methabenzthiazuron to air	8372 kg 1,4-dichlorobenzene eq."/kg
[E603] methomyl to air	5000 kg 1,4-dichlorobenzene eq."/kg
[E626] methyl-mercury to air	2.80E+07 kg 1,4-dichlorobenzene eq."/kg
[E628] metobromuron to air	47 kg 1,4-dichlorobenzene eq."/kg
[E629] metolachlor to air	250 kg 1,4-dichlorobenzene eq."/kg
[E630] mevinphos to air	600 kg 1,4-dichlorobenzene eq."/kg
[E632] molybdenum to air	1.60E+06 kg 1,4-dichlorobenzene eq."/kg
[E633] Naphtalene to air	0.32 kg 1,4-dichlorobenzene eq."/kg
[E635] nickel to air	3.70E+06 kg 1,4-dichlorobenzene eq."/kg
[E650] ortho-Xylene (1,2-dimethylbenzene) to air	0.00099 kg 1,4-dichlorobenzene eq."/kg
[E651] oxamyl to air	0.4 kg 1,4-dichlorobenzene eq."/kg
[E652] oxydemethon-methyl to air	210 kg 1,4-dichlorobenzene eq."/kg
[E655] parathion-ethyl to air	1300 kg 1,4-dichlorobenzene eq."/kg
[E656] parathion-methyl to air	30 kg 1,4-dichlorobenzene eq."/kg
[E658] para-Xylene (1,4-dimethylbenzene) to air	0.00038 kg 1,4-dichlorobenzene eq."/kg
[E660] pentachlorobenzene to air	87 kg 1,4-dichlorobenzene eq."/kg
[E661] pentachloronitrobenzene to air	440 kg 1,4-dichlorobenzene eq."/kg
[E662] pentachlorophenol to air	69 kg 1,4-dichlorobenzene eq."/kg
[E672] permethrin to air	23000 kg 1,4-dichlorobenzene eq."/kg
[E674] phenanthrene to air	5.4 kg 1,4-dichlorobenzene eq."/kg
[E675] Phenol to air	0.36 kg 1,4-dichlorobenzene eq."/kg
[E679] phoxim to air	0.21 kg 1,4-dichlorobenzene eq."/kg

[E680] Phtalic anhydride to air	4.90E-05 kg 1,4-dichlorobenzene eq."/kg
[E682] pirimicarb to air	620 kg 1,4-dichlorobenzene eq."/kg
[E685] Polycyclic Aromatic Hydrocarbons Carcinogenic- (carcinogenic-PAH) to air	14000 kg 1,4-dichlorobenzene eq."/kg
[E686] propachlor to air	6.5 kg 1,4-dichlorobenzene eq."/kg
[E690] propoxur to air	1800 kg 1,4-dichlorobenzene eq."/kg
[E697] Propylene Oxide to air	0.066 kg 1,4-dichlorobenzene eq."/kg
[E698] pyrazophos to air	89 kg 1,4-dichlorobenzene eq."/kg
[E704] selenium to air	9.00E+06 kg 1,4-dichlorobenzene eq."/kg
[E705] simazine to air	410 kg 1,4-dichlorobenzene eq."/kg
[E706] styrene (vinylbenzene) to air	0.00036 kg 1,4-dichlorobenzene eq."/kg
[E718] tetrachloroethylene (PER) (tetrachloroethene) to air	0.12 kg 1,4-dichlorobenzene eq."/kg
[E719] Tetrachloromethane (carbon tetrachloride) (HC-10) to air	0.31 kg 1,4-dichlorobenzene eq."/kg
[E722] thallium to air	2.40E+07 kg 1,4-dichlorobenzene eq."/kg
[E723] Thiram to air	19 kg 1,4-dichlorobenzene eq."/kg
[E724] tin to air	1500 kg 1,4-dichlorobenzene eq."/kg
[E725] tolclophos-methyl to air	1.6 kg 1,4-dichlorobenzene eq."/kg
[E727] Toluene to air	0.00058 kg 1,4-dichlorobenzene eq."/kg
[E733] tri-allate to air	39 kg 1,4-dichlorobenzene eq."/kg
[E734] triazophos to air	1200 kg 1,4-dichlorobenzene eq."/kg
[E735] tributyltinoxide to air	3.90E+05 kg 1,4-dichlorobenzene eq."/kg
[E736] trichlorfon to air	270 kg 1,4-dichlorobenzene eq."/kg
[E737] Trichloroethylene (tri) to air	0.0017 kg 1,4-dichlorobenzene eq."/kg
[E738] Trichloromethane (chloroform) to air	0.016 kg 1,4-dichlorobenzene eq."/kg
[E739] trifluarin to air	44 kg 1,4-dichlorobenzene eq."/kg
[E743] vanadium to air	1.10E+07 kg 1,4-dichlorobenzene eq."/kg
[E745] Vinyl Chloride (chloroethene) to air	0.00012 kg 1,4-dichlorobenzene eq."/kg
[E748] zinc to air	68000 kg 1,4-dichlorobenzene eq."/kg
[E749] zineb to air	450 kg 1,4-dichlorobenzene eq."/kg
[E750] 1,1,1-trichloroethane to air	0.11 kg 1,4-dichlorobenzene eq."/kg
[E751] 1,2,3,4-tetrachlorobenzene to air	6.7 kg 1,4-dichlorobenzene eq."/kg
[E752] 1,2,3,5-tetrachlorobenzene to air	7 kg 1,4-dichlorobenzene eq."/kg
[E753] 1,2,3-trichlorobenzene to air	0.87 kg 1,4-dichlorobenzene eq."/kg
[E754] 1,2,4,5-tetrachlorobenzene to air	5.9 kg 1,4-dichlorobenzene eq."/kg
[E755] 1,2,4-trichlorobenzene to air	0.86 kg 1,4-dichlorobenzene eq."/kg
[E756] 1,2-dichlorobenzene to air	0.28 kg 1,4-dichlorobenzene eq."/kg
[E757] 1,2-dichloroethane to air	0.031 kg 1,4-dichlorobenzene eq."/kg
[E758] 1,3,5-trichlorobenzene to air	1.3 kg 1,4-dichlorobenzene eq."/kg
[E759] 1,3-butadiene to air	0.0099 kg 1,4-dichlorobenzene eq."/kg
[E760] 1,3-dichlorobenzene to air	0.21 kg 1,4-dichlorobenzene eq."/kg
[E761] 1,4-dichlorobenzene to air	0.29 kg 1,4-dichlorobenzene eq."/kg
[E762] 1-chloro-4-nitrobenzene to air	260 kg 1,4-dichlorobenzene eq."/kg
[E763] 2,3,4,6-tetrachlorophenol to air	100 kg 1,4-dichlorobenzene eq."/kg
[E764] 2,3,7,8-TCDD to air	1.50E+08 kg 1,4-dichlorobenzene eq."/kg
[E765] 2,4,5-T to air	0.076 kg 1,4-dichlorobenzene eq."/kg
[E766] 2,4,5-trichlorophenol to air	81 kg 1,4-dichlorobenzene eq."/kg
[E767] 2,4,6-trichlorophenol to fresh water	1.9 kg 1,4-dichlorobenzene eq."/kg
[E768] 2,4-D to fresh water	3.1 kg 1,4-dichlorobenzene eq."/kg
[E769] 2,4-dichlorophenol to fresh water	0.13 kg 1,4-dichlorobenzene eq."/kg
[E770] 2-chlorophenol to fresh water	17 kg 1,4-dichlorobenzene eq."/kg
[E771] 3,4-dichloroaniline to fresh water	3500 kg 1,4-dichlorobenzene eq."/kg
[E772] 3-chloroaniline to fresh water	15 kg 1,4-dichlorobenzene eq."/kg
[E773] 4-chloroaniline to fresh water	20 kg 1,4-dichlorobenzene eq."/kg
[E774] acephate to fresh water	14 kg 1,4-dichlorobenzene eq."/kg
[E775] Acrolein (2-propenal) to fresh water	1600 kg 1,4-dichlorobenzene eq."/kg
[E776] acrylonitrile to fresh water	0.51 kg 1,4-dichlorobenzene eq."/kg
[E777] aldicarb to fresh water	11000 kg 1,4-dichlorobenzene eq."/kg
[E778] aldrin to fresh water	19 kg 1,4-dichlorobenzene eq."/kg
[E780] anilazine to fresh water	0.01 kg 1,4-dichlorobenzene eq."/kg
[E781] anthracene to fresh water	4100 kg 1,4-dichlorobenzene eq."/kg
[E782] antimony to fresh water	25000 kg 1,4-dichlorobenzene eq."/kg
[E783] arsenic to fresh water	1.20E+05 kg 1,4-dichlorobenzene eq."/kg
[E784] atrazine to fresh water	540 kg 1,4-dichlorobenzene eq."/kg
[E785] azinphos-ethyl to fresh water	790 kg 1,4-dichlorobenzene eq."/kg
[E786] azinphos-methyl to fresh water	10 kg 1,4-dichlorobenzene eq."/kg
[E787] barium to fresh water	7.10E+05 kg 1,4-dichlorobenzene eq."/kg
[E788] benomyl to fresh water	0.75 kg 1,4-dichlorobenzene eq."/kg
[E789] bentazone to fresh water	0.33 kg 1,4-dichlorobenzene eq."/kg

[E790] benzene to fresh water	0.0014 kg 1,4-dichlorobenzene eq."/kg
[E791] benzo[a]anthracene to fresh water	28000 kg 1,4-dichlorobenzene eq."/kg
[E792] benzo[a]pyrene to fresh water	36000 kg 1,4-dichlorobenzene eq."/kg
[E793] benzo[ghi]perylene to fresh water	32000 kg 1,4-dichlorobenzene eq."/kg
[E794] benzo[k]fluoranthrene to fresh water	1.30E+06 kg 1,4-dichlorobenzene eq."/kg
[E795] benzylchloride to fresh water	0.19 kg 1,4-dichlorobenzene eq."/kg
[E796] beryllium to fresh water	2.30E+08 kg 1,4-dichlorobenzene eq."/kg
[E797] bifenthrin to fresh water	810 kg 1,4-dichlorobenzene eq."/kg
[E800] Butylbenzylphtalate to fresh water	0.013 kg 1,4-dichlorobenzene eq."/kg
[E801] cadmium to fresh water	2.20E+05 kg 1,4-dichlorobenzene eq."/kg
[E802] captafol to fresh water	1.20E+05 kg 1,4-dichlorobenzene eq."/kg
[E803] captan to fresh water	0.0013 kg 1,4-dichlorobenzene eq."/kg
[E804] carbaryl to fresh water	0.13 kg 1,4-dichlorobenzene eq."/kg
[E805] carbendazim to fresh water	860 kg 1,4-dichlorobenzene eq."/kg
[E806] carbofuran to fresh water	46 kg 1,4-dichlorobenzene eq."/kg
[E807] carbon disulfide to fresh water	1.4 kg 1,4-dichlorobenzene eq."/kg
[E808] Carcinogenic PAHs to fresh water	18000 kg 1,4-dichlorobenzene eq."/kg
[E810] chlordane to fresh water	270 kg 1,4-dichlorobenzene eq."/kg
[E811] chlorfenvinphos to fresh water	6.7 kg 1,4-dichlorobenzene eq."/kg
[E812] chloridazon to fresh water	1.5 kg 1,4-dichlorobenzene eq."/kg
[E814] chlorobenzene to fresh water	0.055 kg 1,4-dichlorobenzene eq."/kg
[E815] chlorothalonil to fresh water	12 kg 1,4-dichlorobenzene eq."/kg
[E816] chlorpropham to fresh water	0.45 kg 1,4-dichlorobenzene eq."/kg
[E817] chlorpyriphos to fresh water	24 kg 1,4-dichlorobenzene eq."/kg
[E818] chromium III to fresh water	880 kg 1,4-dichlorobenzene eq."/kg
[E819] chromium VI to fresh water	3500 kg 1,4-dichlorobenzene eq."/kg
[E820] chrysene to fresh water	10000 kg 1,4-dichlorobenzene eq."/kg
[E821] cobalt to fresh water	2.80E+06 kg 1,4-dichlorobenzene eq."/kg
[E822] copper to fresh water	2.30E+05 kg 1,4-dichlorobenzene eq."/kg
[E823] coumaphos to fresh water	4.40E+06 kg 1,4-dichlorobenzene eq."/kg
[E824] cyanazine to fresh water	250 kg 1,4-dichlorobenzene eq."/kg
[E825] cypermethrin to fresh water	27000 kg 1,4-dichlorobenzene eq."/kg
[E826] cyromazine to fresh water	1400 kg 1,4-dichlorobenzene eq."/kg
[E827] DDT to fresh water	1600 kg 1,4-dichlorobenzene eq."/kg
[E828] deltamethrin to fresh water	2000 kg 1,4-dichlorobenzene eq."/kg
[E829] demeton to fresh water	120 kg 1,4-dichlorobenzene eq."/kg
[E830] desmetryn to fresh water	1.6 kg 1,4-dichlorobenzene eq."/kg
[E831] Di(2-ethylhexyl)phtalate to fresh water	0.27 kg 1,4-dichlorobenzene eq."/kg
[E832] diazinon to fresh water	610 kg 1,4-dichlorobenzene eq."/kg
[E833] Dibutylphtalate to fresh water	0.0075 kg 1,4-dichlorobenzene eq."/kg
[E834] Dichloromethane (Methylene Chloride) to fresh water	0.0013 kg 1,4-dichlorobenzene eq."/kg
[E835] dichlorprop to fresh water	0.0077 kg 1,4-dichlorobenzene eq."/kg
[E836] dichlorvos to fresh water	0.91 kg 1,4-dichlorobenzene eq."/kg
[E837] dieldrin to fresh water	320 kg 1,4-dichlorobenzene eq."/kg
[E838] Diethylphtalate to fresh water	0.094 kg 1,4-dichlorobenzene eq."/kg
[E839] Dihexylphtalate to fresh water	2.3 kg 1,4-dichlorobenzene eq."/kg
[E840] Diisodecylphtalate to fresh water	3.8 kg 1,4-dichlorobenzene eq."/kg
[E841] Diisooctylphtalate to fresh water	0.72 kg 1,4-dichlorobenzene eq."/kg
[E842] dimethoate to fresh water	0.91 kg 1,4-dichlorobenzene eq."/kg
[E843] Dimethylphtalate to fresh water	0.00043 kg 1,4-dichlorobenzene eq."/kg
[E844] dinoseb to fresh water	2200 kg 1,4-dichlorobenzene eq."/kg
[E845] dinoterb to fresh water	2000 kg 1,4-dichlorobenzene eq."/kg
[E846] Dioctylphtalate to fresh water	0.036 kg 1,4-dichlorobenzene eq."/kg
[E847] disulfothon to fresh water	35 kg 1,4-dichlorobenzene eq."/kg
[E848] diuron to fresh water	35 kg 1,4-dichlorobenzene eq."/kg
[E849] DNOC to fresh water	0.08 kg 1,4-dichlorobenzene eq."/kg
[E850] endosulfan to fresh water	0.77 kg 1,4-dichlorobenzene eq."/kg
[E851] endrin to fresh water	25000 kg 1,4-dichlorobenzene eq."/kg
[E852] ethoprophos to fresh water	4800 kg 1,4-dichlorobenzene eq."/kg
[E853] ethylbenzene to fresh water	0.0013 kg 1,4-dichlorobenzene eq."/kg
[E854] ethylene to fresh water	3.40E-05 kg 1,4-dichlorobenzene eq."/kg
[E855] fenitrothion to fresh water	340 kg 1,4-dichlorobenzene eq."/kg
[E856] fenthion to fresh water	2500 kg 1,4-dichlorobenzene eq."/kg
[E857] fentin acetate to fresh water	8700 kg 1,4-dichlorobenzene eq."/kg
[E858] fentin chloride to fresh water	26000 kg 1,4-dichlorobenzene eq."/kg
[E859] fentin hydroxide to fresh water	8600 kg 1,4-dichlorobenzene eq."/kg
[E860] fluoranthrene to fresh water	2800 kg 1,4-dichlorobenzene eq."/kg

[E861] folpet to fresh water	16000 kg 1,4-dichlorobenzene eq."/kg
[E862] Formaldehyde (methanal) to fresh water	0.2 kg 1,4-dichlorobenzene eq."/kg
[E863] glyphosate to fresh water	3.7 kg 1,4-dichlorobenzene eq."/kg
[E864] heptachlor to fresh water	10 kg 1,4-dichlorobenzene eq."/kg
[E865] heptenophos to fresh water	2.3 kg 1,4-dichlorobenzene eq."/kg
[E866] hexachloro-1,3-butadiene to fresh water	28000 kg 1,4-dichlorobenzene eq."/kg
[E867] hexachlorobenzene to fresh water	2700 kg 1,4-dichlorobenzene eq."/kg
[E870] indeno[1,2,3-cd]pyrene to fresh water	50000 kg 1,4-dichlorobenzene eq."/kg
[E871] iprodione to fresh water	0.00024 kg 1,4-dichlorobenzene eq."/kg
[E872] isoproturon to fresh water	13 kg 1,4-dichlorobenzene eq."/kg
[E873] lead to fresh water	1100 kg 1,4-dichlorobenzene eq."/kg
[E874] lindane to fresh water	18 kg 1,4-dichlorobenzene eq."/kg
[E875] linuron to fresh water	730 kg 1,4-dichlorobenzene eq."/kg
[E876] malathion to fresh water	430 kg 1,4-dichlorobenzene eq."/kg
[E878] MCPA to fresh water	0.044 kg 1,4-dichlorobenzene eq."/kg
[E879] mecoprop to fresh water	0.87 kg 1,4-dichlorobenzene eq."/kg
[E880] mercury to fresh water	2.20E+05 kg 1,4-dichlorobenzene eq."/kg
[E881] metamitron to fresh water	0.05 kg 1,4-dichlorobenzene eq."/kg
[E882] metazachlor to fresh water	1.5 kg 1,4-dichlorobenzene eq."/kg
[E883] methabenzthiazuron to fresh water	37 kg 1,4-dichlorobenzene eq."/kg
[E884] methomyl to fresh water	5400 kg 1,4-dichlorobenzene eq."/kg
[E885] methylbromide to fresh water	0.96 kg 1,4-dichlorobenzene eq."/kg
[E886] methyl-mercury to fresh water	5.10E+06 kg 1,4-dichlorobenzene eq."/kg
[E887] metobromuron to fresh water	72 kg 1,4-dichlorobenzene eq."/kg
[E888] metolachlor to fresh water	810 kg 1,4-dichlorobenzene eq."/kg
[E889] mevinphos to fresh water	63 kg 1,4-dichlorobenzene eq."/kg
[E890] molybdenum to fresh water	1.70E+06 kg 1,4-dichlorobenzene eq."/kg
[E891] m-xylene to fresh water	0.0021 kg 1,4-dichlorobenzene eq."/kg
[E892] naphtalene to fresh water	0.38 kg 1,4-dichlorobenzene eq."/kg
[E893] nickel to fresh water	2.20E+06 kg 1,4-dichlorobenzene eq."/kg
[E899] oxamyl to fresh water	0.053 kg 1,4-dichlorobenzene eq."/kg
[E900] oxydemethon-methyl to fresh water	58 kg 1,4-dichlorobenzene eq."/kg
[E901] o-xylene to fresh water	0.0031 kg 1,4-dichlorobenzene eq."/kg
[E902] parathion-ethyl to fresh water	2200 kg 1,4-dichlorobenzene eq."/kg
[E903] parathion-methyl to fresh water	62 kg 1,4-dichlorobenzene eq."/kg
[E904] pentachlorobenzene to fresh water	87 kg 1,4-dichlorobenzene eq."/kg
[E905] pentachloronitrobenzene to fresh water	220 kg 1,4-dichlorobenzene eq."/kg
[E906] pentachlorophenol to fresh water	22 kg 1,4-dichlorobenzene eq."/kg
[E907] permethrin to fresh water	20000 kg 1,4-dichlorobenzene eq."/kg
[E908] phenanthrene to fresh water	8.6 kg 1,4-dichlorobenzene eq."/kg
[E909] phenol to fresh water	0.038 kg 1,4-dichlorobenzene eq."/kg
[E912] phoxim to fresh water	0.67 kg 1,4-dichlorobenzene eq."/kg
[E913] Phtalic anhydride to fresh water	2.40E-08 kg 1,4-dichlorobenzene eq."/kg
[E914] pirimicarb to fresh water	240 kg 1,4-dichlorobenzene eq."/kg
[E916] propachlor to fresh water	2.3 kg 1,4-dichlorobenzene eq."/kg
[E917] propoxur to fresh water	520 kg 1,4-dichlorobenzene eq."/kg
[E918] propylene oxide to fresh water	0.034 kg 1,4-dichlorobenzene eq."/kg
[E919] p-xylene to fresh water	0.0016 kg 1,4-dichlorobenzene eq."/kg
[E920] pyrazophos to fresh water	120 kg 1,4-dichlorobenzene eq."/kg
[E921] selenium to fresh water	1.10E+07 kg 1,4-dichlorobenzene eq."/kg
[E922] simazine to fresh water	210 kg 1,4-dichlorobenzene eq."/kg
[E923] styrene (vinylbenzene) to fresh water	0.0016 kg 1,4-dichlorobenzene eq."/kg
[E926] tetrachloroethylene (PER) to fresh water	0.13 kg 1,4-dichlorobenzene eq."/kg
[E927] Tetrachloromethane (carbon tetrachloride) (HC-10) to fresh water	0.31 kg 1,4-dichlorobenzene eq."/kg
[E928] thallium to fresh water	2.50E+07 kg 1,4-dichlorobenzene eq."/kg
[E929] Thiram to fresh water	6.6 kg 1,4-dichlorobenzene eq."/kg
[E930] tin to fresh water	250 kg 1,4-dichlorobenzene eq."/kg
[E931] tolclophos-methyl to fresh water	5.1 kg 1,4-dichlorobenzene eq."/kg
[E932] toluene to fresh water	0.0013 kg 1,4-dichlorobenzene eq."/kg
[E933] tri-allate to fresh water	220 kg 1,4-dichlorobenzene eq."/kg
[E934] triazophos to fresh water	2100 kg 1,4-dichlorobenzene eq."/kg
[E935] tributyltinoxide to fresh water	2.90E+05 kg 1,4-dichlorobenzene eq."/kg
[E936] trichlorfon to fresh water	13 kg 1,4-dichlorobenzene eq."/kg
[E937] Trichloroethylene (tri) to fresh water	0.0027 kg 1,4-dichlorobenzene eq."/kg
[E938] Trichloromethane=chloroform to fresh water	0.016 kg 1,4-dichlorobenzene eq."/kg
[E939] trifluarin to fresh water	180 kg 1,4-dichlorobenzene eq."/kg
[E940] vanadium to fresh water	7.90E+06 kg 1,4-dichlorobenzene eq."/kg

[E941] Vinyl Chloride (chloroethene) to fresh water	0.00049 kg 1,4-dichlorobenzene eq."/kg
[E942] zinc to fresh water	14000 kg 1,4-dichlorobenzene eq."/kg
[E943] zineb to fresh water	270 kg 1,4-dichlorobenzene eq."/kg
[E944] 1,1,1-trichloroethane to fresh water	0.19 kg 1,4-dichlorobenzene eq."/kg
[E945] 1,2,3,4-tetrachlorobenzene to fresh water	12 kg 1,4-dichlorobenzene eq."/kg
[E946] 1,2,3,5-tetrachlorobenzene to fresh water	13 kg 1,4-dichlorobenzene eq."/kg
[E947] 1,2,3-trichlorobenzene to fresh water	3.5 kg 1,4-dichlorobenzene eq."/kg
[E948] 1,2,4,5-tetrachlorobenzene to fresh water	10 kg 1,4-dichlorobenzene eq."/kg
[E949] 1,2,4-trichlorobenzene to fresh water	2.9 kg 1,4-dichlorobenzene eq."/kg
[E950] 1,2-dichlorobenzene to fresh water	1 kg 1,4-dichlorobenzene eq."/kg
[E951] 1,2-dichloroethane to fresh water	0.061 kg 1,4-dichlorobenzene eq."/kg
[E952] 1,3,5-trichlorobenzene to fresh water	4.5 kg 1,4-dichlorobenzene eq."/kg
[E953] 1,3-butadiene to fresh water	0.83 kg 1,4-dichlorobenzene eq."/kg
[E954] 1,3-dichlorobenzene to fresh water	1.2 kg 1,4-dichlorobenzene eq."/kg
[E955] 1,4-dichlorobenzene to fresh water	1 kg 1,4-dichlorobenzene eq."/kg
[E956] 1-chloro-4-nitrobenzene to fresh water	440 kg 1,4-dichlorobenzene eq."/kg
[E957] 2,3,4,6-tetrachlorophenol to fresh water	250 kg 1,4-dichlorobenzene eq."/kg
[E958] 2,3,7,8-TCDD to fresh water	1.90E+09 kg 1,4-dichlorobenzene eq."/kg
[E959] 2,4,5-T to fresh water	0.49 kg 1,4-dichlorobenzene eq."/kg
[E960] 2,4,5-trichlorophenol to fresh water	160 kg 1,4-dichlorobenzene eq."/kg
[E961] 2,4,6-trichlorophenol to sea water	8.9 kg 1,4-dichlorobenzene eq."/kg
[E962] 2,4-D to sea water	14 kg 1,4-dichlorobenzene eq."/kg
[E963] 2,4-dichlorophenol to sea water	2 kg 1,4-dichlorobenzene eq."/kg
[E964] 2-chlorophenol to sea water	61 kg 1,4-dichlorobenzene eq."/kg
[E965] 3,4-dichloroaniline to sea water	4100 kg 1,4-dichlorobenzene eq."/kg
[E966] 3-chloroaniline to sea water	82 kg 1,4-dichlorobenzene eq."/kg
[E967] 4-chloroaniline to sea water	140 kg 1,4-dichlorobenzene eq."/kg
[E968] acephate to sea water	35 kg 1,4-dichlorobenzene eq."/kg
[E969] Acrolein (2-propenal) to sea water	13000 kg 1,4-dichlorobenzene eq."/kg
[E970] acrylonitrile to sea water	4 kg 1,4-dichlorobenzene eq."/kg
[E971] aldicarb to sea water	22000 kg 1,4-dichlorobenzene eq."/kg
[E972] aldrin to sea water	740 kg 1,4-dichlorobenzene eq."/kg
[E974] anilazine to sea water	0.83 kg 1,4-dichlorobenzene eq."/kg
[E975] anthracene to sea water	25000 kg 1,4-dichlorobenzene eq."/kg
[E976] antimony to sea water	46000 kg 1,4-dichlorobenzene eq."/kg
[E977] arsenic to sea water	3.40E+05 kg 1,4-dichlorobenzene eq."/kg
[E978] atrazine to sea water	670 kg 1,4-dichlorobenzene eq."/kg
[E979] azinphos-ethyl to sea water	4700 kg 1,4-dichlorobenzene eq."/kg
[E980] azinphos-methyl to sea water	290 kg 1,4-dichlorobenzene eq."/kg
[E981] barium to sea water	9.30E+05 kg 1,4-dichlorobenzene eq."/kg
[E982] benomyl to sea water	13 kg 1,4-dichlorobenzene eq."/kg
[E983] bentazone to sea water	1.8 kg 1,4-dichlorobenzene eq."/kg
[E984] benzene to sea water	0.021 kg 1,4-dichlorobenzene eq."/kg
[E985] benzo[a]anthracene to sea water	2.80E+05 kg 1,4-dichlorobenzene eq."/kg
[E986] benzo[a]pyrene to sea water	3.70E+05 kg 1,4-dichlorobenzene eq."/kg
[E987] benzo[ghi]perylene to sea water	2.30E+05 kg 1,4-dichlorobenzene eq."/kg
[E988] benzo[k]fluoranthrene to sea water	4.40E+06 kg 1,4-dichlorobenzene eq."/kg
[E989] benzylchloride to sea water	1.9 kg 1,4-dichlorobenzene eq."/kg
[E990] beryllium to sea water	2.80E+08 kg 1,4-dichlorobenzene eq."/kg
[E991] bifenthrin to sea water	34000 kg 1,4-dichlorobenzene eq."/kg
[E994] Butylbenzylphtalate to sea water	0.4 kg 1,4-dichlorobenzene eq."/kg
[E995] cadmium to sea water	1.90E+06 kg 1,4-dichlorobenzene eq."/kg
[E996] captafol to sea water	1.40E+05 kg 1,4-dichlorobenzene eq."/kg
[E997] captan to sea water	0.5 kg 1,4-dichlorobenzene eq."/kg
[E998] carbaryl to sea water	2.1 kg 1,4-dichlorobenzene eq."/kg
[E999] carbendazim to sea water	2000 kg 1,4-dichlorobenzene eq."/kg
[E1000] carbofuran to sea water	310 kg 1,4-dichlorobenzene eq."/kg
[E1001] carbon disulfide to sea water	45 kg 1,4-dichlorobenzene eq."/kg
[E1002] Carcinogenic PAHs to sea water	80000 kg 1,4-dichlorobenzene eq."/kg
[E1004] chlordane to sea water	15000 kg 1,4-dichlorobenzene eq."/kg
[E1005] chlorfenvinphos to sea water	33 kg 1,4-dichlorobenzene eq."/kg
[E1006] chloridazon to sea water	10 kg 1,4-dichlorobenzene eq."/kg
[E1008] chlorobenzene to sea water	0.45 kg 1,4-dichlorobenzene eq."/kg
[E1009] chlorothalonil to sea water	23 kg 1,4-dichlorobenzene eq."/kg
[E1010] chlorpropham to sea water	2.5 kg 1,4-dichlorobenzene eq."/kg
[E1011] chlorpyriphos to sea water	220 kg 1,4-dichlorobenzene eq."/kg
[E1012] chromium III to sea water	8400 kg 1,4-dichlorobenzene eq."/kg

[E1013] chromium VI to sea water	34000 kg 1,4-dichlorobenzene eq."/kg
[E1014] chrysene to sea water	26000 kg 1,4-dichlorobenzene eq."/kg
[E1015] cobalt to sea water	5.20E+06 kg 1,4-dichlorobenzene eq."/kg
[E1016] copper to sea water	1.50E+06 kg 1,4-dichlorobenzene eq."/kg
[E1017] coumaphos to sea water	5.20E+06 kg 1,4-dichlorobenzene eq."/kg
[E1018] cyanazine to sea water	1600 kg 1,4-dichlorobenzene eq."/kg
[E1019] cypermethrin to sea water	4.50E+05 kg 1,4-dichlorobenzene eq."/kg
[E1020] cyromazine to sea water	2200 kg 1,4-dichlorobenzene eq."/kg
[E1021] DDT to sea water	71000 kg 1,4-dichlorobenzene eq."/kg
[E1022] deltamethrin to sea water	72000 kg 1,4-dichlorobenzene eq."/kg
[E1023] demeton to sea water	700 kg 1,4-dichlorobenzene eq."/kg
[E1024] desmetryn to sea water	5.5 kg 1,4-dichlorobenzene eq."/kg
[E1025] Di(2-ethylhexyl)phtalate to sea water	11 kg 1,4-dichlorobenzene eq."/kg
[E1026] diazinon to sea water	2700 kg 1,4-dichlorobenzene eq."/kg
[E1027] Dibutylphtalate to sea water	0.16 kg 1,4-dichlorobenzene eq."/kg
[E1028] Dichloromethane (Methylene Chloride) to sea water	0.0038 kg 1,4-dichlorobenzene eq."/kg
[E1029] dichlorprop to sea water	0.064 kg 1,4-dichlorobenzene eq."/kg
[E1030] dichlorvos to sea water	180 kg 1,4-dichlorobenzene eq."/kg
[E1031] dieldrin to sea water	2100 kg 1,4-dichlorobenzene eq."/kg
[E1032] Diethylphtalate to sea water	0.65 kg 1,4-dichlorobenzene eq."/kg
[E1033] Dihexylphtalate to sea water	20 kg 1,4-dichlorobenzene eq."/kg
[E1034] Diisodecylphtalate to sea water	34 kg 1,4-dichlorobenzene eq."/kg
[E1035] Diisooctylphtalate to sea water	28 kg 1,4-dichlorobenzene eq."/kg
[E1036] dimethoate to sea water	4.1 kg 1,4-dichlorobenzene eq."/kg
[E1037] Dimethylphtalate to sea water	0.013 kg 1,4-dichlorobenzene eq."/kg
[E1038] dinoseb to sea water	5000 kg 1,4-dichlorobenzene eq."/kg
[E1039] dinoterb to sea water	4500 kg 1,4-dichlorobenzene eq."/kg
[E1040] Dioctylphtalate to sea water	2.6 kg 1,4-dichlorobenzene eq."/kg
[E1041] disulfothon to sea water	420 kg 1,4-dichlorobenzene eq."/kg
[E1042] diuron to sea water	420 kg 1,4-dichlorobenzene eq."/kg
[E1043] DNOC to sea water	0.61 kg 1,4-dichlorobenzene eq."/kg
[E1044] endosulfan to sea water	22 kg 1,4-dichlorobenzene eq."/kg
[E1045] endrin to sea water	2.00E+05 kg 1,4-dichlorobenzene eq."/kg
[E1046] ethoprophos to sea water	8900 kg 1,4-dichlorobenzene eq."/kg
[E1047] ethylbenzene to sea water	0.067 kg 1,4-dichlorobenzene eq."/kg
[E1048] ethylene to sea water	0.0032 kg 1,4-dichlorobenzene eq."/kg
[E1049] fenitrothion to sea water	2900 kg 1,4-dichlorobenzene eq."/kg
[E1050] fenthion to sea water	15000 kg 1,4-dichlorobenzene eq."/kg
[E1051] fentin acetate to sea water	1.10E+05 kg 1,4-dichlorobenzene eq."/kg
[E1052] fentin chloride to sea water	1.10E+05 kg 1,4-dichlorobenzene eq."/kg
[E1053] fentin hydroxide to sea water	1.10E+05 kg 1,4-dichlorobenzene eq."/kg
[E1054] fluoranthrene to sea water	14000 kg 1,4-dichlorobenzene eq."/kg
[E1055] folpet to sea water	28000 kg 1,4-dichlorobenzene eq."/kg
[E1056] Formaldehyde (methanal) to sea water	6 kg 1,4-dichlorobenzene eq."/kg
[E1057] glyphosate to sea water	30 kg 1,4-dichlorobenzene eq."/kg
[E1058] heptachlor to sea water	920 kg 1,4-dichlorobenzene eq."/kg
[E1059] heptenophos to sea water	91 kg 1,4-dichlorobenzene eq."/kg
[E1060] hexachloro-1,3-butadiene to sea water	47000 kg 1,4-dichlorobenzene eq."/kg
[E1061] hexachlorobenzene to sea water	3400 kg 1,4-dichlorobenzene eq."/kg
[E1064] indeno[1,2,3-cd]pyrene to sea water	3.80E+05 kg 1,4-dichlorobenzene eq."/kg
[E1065] iprodione to sea water	0.012 kg 1,4-dichlorobenzene eq."/kg
[E1066] isoproturon to sea water	37 kg 1,4-dichlorobenzene eq."/kg
[E1067] lead to sea water	12000 kg 1,4-dichlorobenzene eq."/kg
[E1068] lindane to sea water	48 kg 1,4-dichlorobenzene eq."/kg
[E1069] linuron to sea water	1700 kg 1,4-dichlorobenzene eq."/kg
[E1070] malathion to sea water	2800 kg 1,4-dichlorobenzene eq."/kg
[E1072] MCPA to sea water	0.69 kg 1,4-dichlorobenzene eq."/kg
[E1073] mecoprop to sea water	11 kg 1,4-dichlorobenzene eq."/kg
[E1074] mercury to sea water	1.90E+06 kg 1,4-dichlorobenzene eq."/kg
[E1075] metamitron to sea water	0.38 kg 1,4-dichlorobenzene eq."/kg
[E1076] metazachlor to sea water	5.2 kg 1,4-dichlorobenzene eq."/kg
[E1077] methabenzthiazuron to sea water	70 kg 1,4-dichlorobenzene eq."/kg
[E1078] methomyl to sea water	8900 kg 1,4-dichlorobenzene eq."/kg
[E1079] methylbromide to sea water	2 kg 1,4-dichlorobenzene eq."/kg
[E1080] methyl-mercury to sea water	4.40E+07 kg 1,4-dichlorobenzene eq."/kg
[E1081] metobromuron to sea water	82 kg 1,4-dichlorobenzene eq."/kg
[E1082] metolachlor to sea water	1900 kg 1,4-dichlorobenzene eq."/kg

[E1083] mevinphos to sea water	1200	kg 1,4-dichlorobenzene eq."/kg
[E1084] molybdenum to sea water	2.20E+06	kg 1,4-dichlorobenzene eq."/kg
[E1085] m-xylene to sea water	0.14	kg 1,4-dichlorobenzene eq."/kg
[E1086] naphtalene to sea water	12	kg 1,4-dichlorobenzene eq."/kg
[E1087] nickel to sea water	5.70E+06	kg 1,4-dichlorobenzene eq."/kg
[E1093] oxamyl to sea water	0.8	kg 1,4-dichlorobenzene eq."/kg
[E1094] oxydemethon-methyl to sea water	420	kg 1,4-dichlorobenzene eq."/kg
[E1095] o-xylene to sea water	0.17	kg 1,4-dichlorobenzene eq."/kg
[E1096] parathion-ethyl to sea water	17000	kg 1,4-dichlorobenzene eq."/kg
[E1097] parathion-methyl to sea water	340	kg 1,4-dichlorobenzene eq."/kg
[E1098] pentachlorobenzene to sea water	140	kg 1,4-dichlorobenzene eq."/kg
[E1099] pentachloronitrobenzene to sea water	550	kg 1,4-dichlorobenzene eq."/kg
[E1100] pentachlorophenol to sea water	140	kg 1,4-dichlorobenzene eq."/kg
[E1101] permethrin to sea water	2.20E+05	kg 1,4-dichlorobenzene eq."/kg
[E1102] phenanthrene to sea water	64	kg 1,4-dichlorobenzene eq."/kg
[E1103] phenol to sea water	3.2	kg 1,4-dichlorobenzene eq."/kg
[E1106] phoxim to sea water	41	kg 1,4-dichlorobenzene eq."/kg
[E1107] Phtalic anhydride to sea water	9.90E-05	kg 1,4-dichlorobenzene eq."/kg
[E1108] pirimicarb to sea water	1300	kg 1,4-dichlorobenzene eq."/kg
[E1110] propachlor to sea water	25	kg 1,4-dichlorobenzene eq."/kg
[E1111] propoxur to sea water	3600	kg 1,4-dichlorobenzene eq."/kg
[E1112] propylene oxide to sea water	0.15	kg 1,4-dichlorobenzene eq."/kg
[E1113] p-xylene to sea water	0.097	kg 1,4-dichlorobenzene eq."/kg
[E1114] pyrazophos to sea water	1100	kg 1,4-dichlorobenzene eq."/kg
[E1115] selenium to sea water	1.20E+07	kg 1,4-dichlorobenzene eq."/kg
[E1116] simazine to sea water	1000	kg 1,4-dichlorobenzene eq."/kg
[E1117] styrene (vinylbenzene) to sea water	0.093	kg 1,4-dichlorobenzene eq."/kg
[E1120] tetrachloroethylene (PER) to sea water	0.78	kg 1,4-dichlorobenzene eq."/kg
[E1121] Tetrachloromethane (carbon tetrachloride) (HC-10) to sea water	0.46	kg 1,4-dichlorobenzene eq."/kg
[E1122] thallium to sea water	3.40E+07	kg 1,4-dichlorobenzene eq."/kg
[E1123] Thiram to sea water	37	kg 1,4-dichlorobenzene eq."/kg
[E1124] tin to sea water	2500	kg 1,4-dichlorobenzene eq."/kg
[E1125] tolclophos-methyl to sea water	160	kg 1,4-dichlorobenzene eq."/kg
[E1126] toluene to sea water	0.063	kg 1,4-dichlorobenzene eq."/kg
[E1127] tri-allate to sea water	920	kg 1,4-dichlorobenzene eq."/kg
[E1128] triazophos to sea water	6800	kg 1,4-dichlorobenzene eq."/kg
[E1129] tributyltinoxide to sea water	7.90E+05	kg 1,4-dichlorobenzene eq."/kg
[E1130] trichlorfon to sea water	540	kg 1,4-dichlorobenzene eq."/kg
[E1131] Trichloroethylene (tri) to sea water	0.081	kg 1,4-dichlorobenzene eq."/kg
[E1132] Trichloromethane=chloroform to sea water	0.033	kg 1,4-dichlorobenzene eq."/kg
[E1133] trifluarin to sea water	3600	kg 1,4-dichlorobenzene eq."/kg
[E1134] vanadium to sea water	1.70E+07	kg 1,4-dichlorobenzene eq."/kg
[E1135] Vinyl Chloride (chloroethene) to sea water	0.029	kg 1,4-dichlorobenzene eq."/kg
[E1136] zinc to sea water	1.10E+05	kg 1,4-dichlorobenzene eq."/kg
[E1137] zineb to sea water	890	kg 1,4-dichlorobenzene eq."/kg
[E1138] 1,1,1-trichloroethane to sea water	0.1	kg 1,4-dichlorobenzene eq."/kg
[E1139] 1,2,3,4-tetrachlorobenzene to sea water	0.16	kg 1,4-dichlorobenzene eq."/kg
[E1140] 1,2,3,5-tetrachlorobenzene to sea water	0.9	kg 1,4-dichlorobenzene eq."/kg
[E1141] 1,2,3-trichlorobenzene to sea water	0.26	kg 1,4-dichlorobenzene eq."/kg
[E1142] 1,2,4,5-tetrachlorobenzene to sea water	0.21	kg 1,4-dichlorobenzene eq."/kg
[E1143] 1,2,4-trichlorobenzene to sea water	0.18	kg 1,4-dichlorobenzene eq."/kg
[E1144] 1,2-dichlorobenzene to sea water	0.21	kg 1,4-dichlorobenzene eq."/kg
[E1145] 1,2-dichloroethane to sea water	0.022	kg 1,4-dichlorobenzene eq."/kg
[E1146] 1,3,5-trichlorobenzene to sea water	0.45	kg 1,4-dichlorobenzene eq."/kg
[E1147] 1,3-butadiene to sea water	3.20E-06	kg 1,4-dichlorobenzene eq."/kg
[E1148] 1,3-dichlorobenzene to sea water	0.16	kg 1,4-dichlorobenzene eq."/kg
[E1149] 1,4-dichlorobenzene to sea water	0.21	kg 1,4-dichlorobenzene eq."/kg
[E1150] 1-chloro-4-nitrobenzene to sea water	79	kg 1,4-dichlorobenzene eq."/kg
[E1151] 2,3,4,6-tetrachlorophenol to sea water	0.68	kg 1,4-dichlorobenzene eq."/kg
[E1152] 2,3,7,8-TCDD to sea water	1.40E+05	kg 1,4-dichlorobenzene eq."/kg
[E1153] 2,4,5-T to sea water	0.002	kg 1,4-dichlorobenzene eq."/kg
[E1154] 2,4,5-trichlorophenol to sea water	1.6	kg 1,4-dichlorobenzene eq."/kg
[E1155] 2,4,6-trichlorophenol to agricultural soil	0.0095	kg 1,4-dichlorobenzene eq."/kg
[E1156] 2,4-D to agricultural soil	0.23	kg 1,4-dichlorobenzene eq."/kg
[E1157] 2,4-dichlorophenol to agricultural soil	0.0032	kg 1,4-dichlorobenzene eq."/kg
[E1158] 2-chlorophenol to agricultural soil	0.09	kg 1,4-dichlorobenzene eq."/kg
[E1159] 3,4-dichloroaniline to agricultural soil	330	kg 1,4-dichlorobenzene eq."/kg

[E1160] 3-chloroaniline to agricultural soil	0.45 kg 1,4-dichlorobenzene eq."/kg
[E1161] 4-chloroaniline to agricultural soil	11 kg 1,4-dichlorobenzene eq."/kg
[E1162] acephate to agricultural soil	0.64 kg 1,4-dichlorobenzene eq."/kg
[E1163] Acrolein (2-propenal) to agricultural soil	360 kg 1,4-dichlorobenzene eq."/kg
[E1164] acrylonitrile to agricultural soil	0.19 kg 1,4-dichlorobenzene eq."/kg
[E1165] aldicarb to agricultural soil	2400 kg 1,4-dichlorobenzene eq."/kg
[E1166] aldrin to agricultural soil	2.9 kg 1,4-dichlorobenzene eq."/kg
[E1168] anilazine to agricultural soil	2.10E-06 kg 1,4-dichlorobenzene eq."/kg
[E1169] anthracene to agricultural soil	8.2 kg 1,4-dichlorobenzene eq."/kg
[E1170] antimony to agricultural soil	13000 kg 1,4-dichlorobenzene eq."/kg
[E1171] arsenic to agricultural soil	77000 kg 1,4-dichlorobenzene eq."/kg
[E1172] atrazine to agricultural soil	38 kg 1,4-dichlorobenzene eq."/kg
[E1173] azinphos-ethyl to agricultural soil	8.4 kg 1,4-dichlorobenzene eq."/kg
[E1174] azinphos-methyl to agricultural soil	0.041 kg 1,4-dichlorobenzene eq."/kg
[E1175] barium to agricultural soil	3.60E+05 kg 1,4-dichlorobenzene eq."/kg
[E1176] benomyl to agricultural soil	0.0005 kg 1,4-dichlorobenzene eq."/kg
[E1177] bentazone to agricultural soil	0.055 kg 1,4-dichlorobenzene eq."/kg
[E1178] benzene to agricultural soil	0.0011 kg 1,4-dichlorobenzene eq."/kg
[E1179] benzo[a]anthracene to agricultural soil	15 kg 1,4-dichlorobenzene eq."/kg
[E1180] benzo[a]pyrene to agricultural soil	19 kg 1,4-dichlorobenzene eq."/kg
[E1181] benzo[ghi]perylene to agricultural soil	37 kg 1,4-dichlorobenzene eq."/kg
[E1182] benzo[k]fluoranthrene to agricultural soil	5900 kg 1,4-dichlorobenzene eq."/kg
[E1183] benzylchloride to agricultural soil	0.013 kg 1,4-dichlorobenzene eq."/kg
[E1184] beryllium to agricultural soil	1.20E+08 kg 1,4-dichlorobenzene eq."/kg
[E1185] bifenthrin to agricultural soil	0.43 kg 1,4-dichlorobenzene eq."/kg
[E1186] Butylbenzylphtalate to agricultural soil	7.10E-06 kg 1,4-dichlorobenzene eq."/kg
[E1187] cadmium to agricultural soil	1.10E+05 kg 1,4-dichlorobenzene eq."/kg
[E1188] captafol to agricultural soil	5800 kg 1,4-dichlorobenzene eq."/kg
[E1189] captan to agricultural soil	8.40E-07 kg 1,4-dichlorobenzene eq."/kg
[E1190] carbaryl to agricultural soil	0.00065 kg 1,4-dichlorobenzene eq."/kg
[E1191] carbendazim to agricultural soil	45 kg 1,4-dichlorobenzene eq."/kg
[E1192] carbofuran to agricultural soil	2.1 kg 1,4-dichlorobenzene eq."/kg
[E1193] carbon disulfide to agricultural soil	0.79 kg 1,4-dichlorobenzene eq."/kg
[E1194] Carcinogenic PAHs to agricultural soil	41 kg 1,4-dichlorobenzene eq."/kg
[E1195] chlordane to agricultural soil	0.84 kg 1,4-dichlorobenzene eq."/kg
[E1196] chlorfenvinphos to agricultural soil	0.1 kg 1,4-dichlorobenzene eq."/kg
[E1197] chloridazon to agricultural soil	0.1 kg 1,4-dichlorobenzene eq."/kg
[E1198] chlorobenzene to agricultural soil	0.037 kg 1,4-dichlorobenzene eq."/kg
[E1199] chlorothalonil to agricultural soil	0.47 kg 1,4-dichlorobenzene eq."/kg
[E1200] chlorpropham to agricultural soil	0.011 kg 1,4-dichlorobenzene eq."/kg
[E1201] chlorpyriphos to agricultural soil	0.014 kg 1,4-dichlorobenzene eq."/kg
[E1202] chromium III to agricultural soil	670 kg 1,4-dichlorobenzene eq."/kg
[E1203] chromium VI to agricultural soil	2700 kg 1,4-dichlorobenzene eq."/kg
[E1204] chrysene to agricultural soil	40 kg 1,4-dichlorobenzene eq."/kg
[E1205] cobalt to agricultural soil	1.40E+06 kg 1,4-dichlorobenzene eq."/kg
[E1206] copper to agricultural soil	1.20E+05 kg 1,4-dichlorobenzene eq."/kg
[E1207] coumaphos to agricultural soil	2.20E+05 kg 1,4-dichlorobenzene eq."/kg
[E1208] cyanazine to agricultural soil	3.7 kg 1,4-dichlorobenzene eq."/kg
[E1209] cypermethrin to agricultural soil	800 kg 1,4-dichlorobenzene eq."/kg
[E1210] cyromazine to agricultural soil	350 kg 1,4-dichlorobenzene eq."/kg
[E1211] DDT to agricultural soil	14 kg 1,4-dichlorobenzene eq."/kg
[E1212] deltamethrin to agricultural soil	0.12 kg 1,4-dichlorobenzene eq."/kg
[E1213] demeton to agricultural soil	4.5 kg 1,4-dichlorobenzene eq."/kg
[E1214] desmetryn to agricultural soil	0.024 kg 1,4-dichlorobenzene eq."/kg
[E1215] Di(2-ethylhexyl)phtalate to agricultural soil	1.10E-05 kg 1,4-dichlorobenzene eq."/kg
[E1216] diazinon to agricultural soil	7.5 kg 1,4-dichlorobenzene eq."/kg
[E1217] Dibutylphtalate to agricultural soil	1.10E-05 kg 1,4-dichlorobenzene eq."/kg
[E1218] Dichloromethane (Methylene Chloride) to agricultural soil	0.00092 kg 1,4-dichlorobenzene eq."/kg
[E1219] dichlorprop to agricultural soil	1.90E-05 kg 1,4-dichlorobenzene eq."/kg
[E1220] dichlorvos to agricultural soil	0.0027 kg 1,4-dichlorobenzene eq."/kg
[E1221] dieldrin to agricultural soil	2.8 kg 1,4-dichlorobenzene eq."/kg
[E1222] Diethylphtalate to agricultural soil	0.00056 kg 1,4-dichlorobenzene eq."/kg
[E1223] Dihexylphtalate to agricultural soil	0.0008 kg 1,4-dichlorobenzene eq."/kg
[E1224] Diisodecylphtalate to agricultural soil	0.0014 kg 1,4-dichlorobenzene eq."/kg
[E1225] Diisooctylphtalate to agricultural soil	0.0001 kg 1,4-dichlorobenzene eq."/kg
[E1226] dimethoate to agricultural soil	0.048 kg 1,4-dichlorobenzene eq."/kg
[E1227] Dimethylphtalate to agricultural soil	2.30E-06 kg 1,4-dichlorobenzene eq."/kg

[E1228] dinoseb to agricultural soil	150 kg 1,4-dichlorobenzene eq."/kg
[E1229] dinoterb to agricultural soil	3.1 kg 1,4-dichlorobenzene eq."/kg
[E1230] Dioctylphtalate to agricultural soil	1.30E-06 kg 1,4-dichlorobenzene eq."/kg
[E1231] disulfothon to agricultural soil	0.04 kg 1,4-dichlorobenzene eq."/kg
[E1232] diuron to agricultural soil	0.04 kg 1,4-dichlorobenzene eq."/kg
[E1233] DNOC to agricultural soil	0.00085 kg 1,4-dichlorobenzene eq."/kg
[E1234] endosulfan to agricultural soil	9.00E-05 kg 1,4-dichlorobenzene eq."/kg
[E1235] endrin to agricultural soil	750 kg 1,4-dichlorobenzene eq."/kg
[E1236] ethoprophos to agricultural soil	360 kg 1,4-dichlorobenzene eq."/kg
[E1237] ethylbenzene to agricultural soil	0.00032 kg 1,4-dichlorobenzene eq."/kg
[E1238] ethylene to agricultural soil	7.10E-11 kg 1,4-dichlorobenzene eq."/kg
[E1239] fenitrothion to agricultural soil	1.1 kg 1,4-dichlorobenzene eq."/kg
[E1240] fenthion to agricultural soil	9.9 kg 1,4-dichlorobenzene eq."/kg
[E1241] fentin acetate to agricultural soil	18 kg 1,4-dichlorobenzene eq."/kg
[E1242] fentin chloride to agricultural soil	120 kg 1,4-dichlorobenzene eq."/kg
[E1243] fentin hydroxide to agricultural soil	16 kg 1,4-dichlorobenzene eq."/kg
[E1244] fluoranthrene to agricultural soil	4.3 kg 1,4-dichlorobenzene eq."/kg
[E1245] folpet to agricultural soil	930 kg 1,4-dichlorobenzene eq."/kg
[E1246] Formaldehyde (methanal) to agricultural soil	0.018 kg 1,4-dichlorobenzene eq."/kg
[E1247] glyphosate to agricultural soil	0.0025 kg 1,4-dichlorobenzene eq."/kg
[E1248] heptachlor to agricultural soil	0.02 kg 1,4-dichlorobenzene eq."/kg
[E1249] heptenophos to agricultural soil	0.0051 kg 1,4-dichlorobenzene eq."/kg
[E1250] hexachloro-1,3-butadiene to agricultural soil	11000 kg 1,4-dichlorobenzene eq."/kg
[E1251] hexachlorobenzene to agricultural soil	830 kg 1,4-dichlorobenzene eq."/kg
[E1254] indeno[1,2,3-cd]pyrene to agricultural soil	59 kg 1,4-dichlorobenzene eq."/kg
[E1255] iprodione to agricultural soil	3.50E-07 kg 1,4-dichlorobenzene eq."/kg
[E1256] isoproturon to agricultural soil	1.1 kg 1,4-dichlorobenzene eq."/kg
[E1257] lead to agricultural soil	780 kg 1,4-dichlorobenzene eq."/kg
[E1258] lindane to agricultural soil	0.29 kg 1,4-dichlorobenzene eq."/kg
[E1259] linuron to agricultural soil	16 kg 1,4-dichlorobenzene eq."/kg
[E1260] malathion to agricultural soil	0.37 kg 1,4-dichlorobenzene eq."/kg
[E1261] MCPA to agricultural soil	0.00076 kg 1,4-dichlorobenzene eq."/kg
[E1262] mecoprop to agricultural soil	0.069 kg 1,4-dichlorobenzene eq."/kg
[E1263] mercury to agricultural soil	1.70E+05 kg 1,4-dichlorobenzene eq."/kg
[E1264] metamitron to agricultural soil	0.00089 kg 1,4-dichlorobenzene eq."/kg
[E1265] metazachlor to agricultural soil	0.039 kg 1,4-dichlorobenzene eq."/kg
[E1266] methabenzthiazuron to agricultural soil	1.5 kg 1,4-dichlorobenzene eq."/kg
[E1267] methomyl to agricultural soil	570 kg 1,4-dichlorobenzene eq."/kg
[E1268] methylbromide to agricultural soil	0.83 kg 1,4-dichlorobenzene eq."/kg
[E1269] methyl-mercury to agricultural soil	3.90E+06 kg 1,4-dichlorobenzene eq."/kg
[E1270] metobromuron to agricultural soil	16 kg 1,4-dichlorobenzene eq."/kg
[E1271] metolachlor to agricultural soil	41 kg 1,4-dichlorobenzene eq."/kg
[E1272] mevinphos to agricultural soil	0.038 kg 1,4-dichlorobenzene eq."/kg
[E1273] molybdenum to agricultural soil	9.60E+05 kg 1,4-dichlorobenzene eq."/kg
[E1274] m-xylene to agricultural soil	0.00023 kg 1,4-dichlorobenzene eq."/kg
[E1275] naphtalene to agricultural soil	0.02 kg 1,4-dichlorobenzene eq."/kg
[E1276] nickel to agricultural soil	1.20E+06 kg 1,4-dichlorobenzene eq."/kg
[E1278] oxamyl to agricultural soil	0.0024 kg 1,4-dichlorobenzene eq."/kg
[E1279] oxydemethon-methyl to agricultural soil	0.82 kg 1,4-dichlorobenzene eq."/kg
[E1280] o-xylene to agricultural soil	0.0006 kg 1,4-dichlorobenzene eq."/kg
[E1281] parathion-ethyl to agricultural soil	0.96 kg 1,4-dichlorobenzene eq."/kg
[E1282] parathion-methyl to agricultural soil	0.25 kg 1,4-dichlorobenzene eq."/kg
[E1283] pentachlorobenzene to agricultural soil	14 kg 1,4-dichlorobenzene eq."/kg
[E1284] pentachloronitrobenzene to agricultural soil	2.3 kg 1,4-dichlorobenzene eq."/kg
[E1285] pentachlorophenol to agricultural soil	0.011 kg 1,4-dichlorobenzene eq."/kg
[E1286] permethrin to agricultural soil	4.2 kg 1,4-dichlorobenzene eq."/kg
[E1287] phenanthrene to agricultural soil	0.007 kg 1,4-dichlorobenzene eq."/kg
[E1288] phenol to agricultural soil	0.0011 kg 1,4-dichlorobenzene eq."/kg
[E1289] phoxim to agricultural soil	0.041 kg 1,4-dichlorobenzene eq."/kg
[E1290] Phtalic anhydride to agricultural soil	1.10E-10 kg 1,4-dichlorobenzene eq."/kg
[E1291] pirimicarb to agricultural soil	11 kg 1,4-dichlorobenzene eq."/kg
[E1293] propachlor to agricultural soil	0.04 kg 1,4-dichlorobenzene eq."/kg
[E1294] propoxur to agricultural soil	40 kg 1,4-dichlorobenzene eq."/kg
[E1295] propylene oxide to agricultural soil	0.016 kg 1,4-dichlorobenzene eq."/kg
[E1296] p-xylene to agricultural soil	0.0002 kg 1,4-dichlorobenzene eq."/kg
[E1297] pyrazophos to agricultural soil	0.65 kg 1,4-dichlorobenzene eq."/kg
[E1298] selenium to agricultural soil	5.40E+06 kg 1,4-dichlorobenzene eq."/kg

[E1299] simazine to agricultural soil	19 kg 1,4-dichlorobenzene eq."/kg
[E1300] styrene (vinylbenzene) to agricultural soil	7.60E-05 kg 1,4-dichlorobenzene eq."/kg
[E1302] tetrachloroethylene (PER) to agricultural soil	0.11 kg 1,4-dichlorobenzene eq."/kg
[E1303] Tetrachloromethane (carbon tetrachloride) (HC-10) to agricultural soil	0.3 kg 1,4-dichlorobenzene eq."/kg
[E1304] thallium to agricultural soil	1.30E+07 kg 1,4-dichlorobenzene eq."/kg
[E1305] Thiram to agricultural soil	0.057 kg 1,4-dichlorobenzene eq."/kg
[E1306] tin to agricultural soil	170 kg 1,4-dichlorobenzene eq."/kg
[E1307] tolclophos-methyl to agricultural soil	0.15 kg 1,4-dichlorobenzene eq."/kg
[E1308] toluene to agricultural soil	0.00037 kg 1,4-dichlorobenzene eq."/kg
[E1309] tri-allate to agricultural soil	0.23 kg 1,4-dichlorobenzene eq."/kg
[E1310] triazophos to agricultural soil	73 kg 1,4-dichlorobenzene eq."/kg
[E1311] tributyltinoxide to agricultural soil	770 kg 1,4-dichlorobenzene eq."/kg
[E1312] trichlorfon to agricultural soil	0.1 kg 1,4-dichlorobenzene eq."/kg
[E1313] Trichloroethylene (tri) to agricultural soil	0.0015 kg 1,4-dichlorobenzene eq."/kg
[E1314] *Trichloromethane=chloroform to agricultural soil*	0.013 kg 1,4-*dichlorobenzene* eq."/kg
[E1315] trifluarin to agricultural soil	0.49 kg 1,4-dichlorobenzene eq."/kg
[E1316] vanadium to agricultural soil	4.10E+06 kg 1,4-dichlorobenzene eq."/kg
[E1317] Vinyl Chloride (chloroethene) to agricultural soil	0.00012 kg 1,4-dichlorobenzene eq."/kg
[E1318] zinc to agricultural soil	7300 kg 1,4-dichlorobenzene eq."/kg
[E1319] zineb to agricultural soil	3.8 kg 1,4-dichlorobenzene eq."/kg
[E1320] 1,1,1-trichloroethane to agricultural soil	0.1 kg 1,4-dichlorobenzene eq."/kg
[E1321] 1,2,3,4-tetrachlorobenzene to agricultural soil	0.6 kg 1,4-dichlorobenzene eq."/kg
[E1322] 1,2,3,5-tetrachlorobenzene to agricultural soil	2 kg 1,4-dichlorobenzene eq."/kg
[E1323] 1,2,3-trichlorobenzene to agricultural soil	0.35 kg 1,4-dichlorobenzene eq."/kg
[E1324] 1,2,4,5-tetrachlorobenzene to agricultural soil	0.74 kg 1,4-dichlorobenzene eq."/kg
[E1325] 1,2,4-trichlorobenzene to agricultural soil	0.3 kg 1,4-dichlorobenzene eq."/kg
[E1326] 1,2-dichlorobenzene to agricultural soil	0.21 kg 1,4-dichlorobenzene eq."/kg
[E1327] 1,2-dichloroethane to agricultural soil	0.022 kg 1,4-dichlorobenzene eq."/kg
[E1328] 1,3,5-trichlorobenzene to agricultural soil	0.55 kg 1,4-dichlorobenzene eq."/kg
[E1329] 1,3-butadiene to agricultural soil	3.20E-06 kg 1,4-dichlorobenzene eq."/kg
[E1330] 1,3-dichlorobenzene to agricultural soil	0.16 kg 1,4-dichlorobenzene eq."/kg
[E1331] 1,4-dichlorobenzene to agricultural soil	0.21 kg 1,4-dichlorobenzene eq."/kg
[E1332] 1-chloro-4-nitrobenzene to agricultural soil	79 kg 1,4-dichlorobenzene eq."/kg
[E1333] 2,3,4,6-tetrachlorophenol to agricultural soil	12.72 kg 1,4-dichlorobenzene eq."/kg
[E1334] 2,3,7,8-TCDD to agricultural soil	5.70E+05 kg 1,4-dichlorobenzene eq."/kg
[E1335] 2,4,5-T to agricultural soil	0.0068 kg 1,4-dichlorobenzene eq."/kg
[E1336] 2,4,5-trichlorophenol to agricultural soil	5.7 kg 1,4-dichlorobenzene eq."/kg
[E1337] 2,4,6-trichlorophenol to industrial soil	0.037 kg 1,4-dichlorobenzene eq."/kg
[E1338] 2,4-D to industrial soil	0.64 kg 1,4-dichlorobenzene eq."/kg
[E1339] 2,4-dichlorophenol to industrial soil	0.012 kg 1,4-dichlorobenzene eq."/kg
[E1340] 2-chlorophenol to industrial soil	0.35 kg 1,4-dichlorobenzene eq."/kg
[E1341] 3,4-dichloroaniline to industrial soil	740 kg 1,4-dichlorobenzene eq."/kg
[E1342] 3-chloroaniline to industrial soil	1.6 kg 1,4-dichlorobenzene eq."/kg
[E1343] 4-chloroaniline to industrial soil	3.3 kg 1,4-dichlorobenzene eq."/kg
[E1344] acephate to industrial soil	2 kg 1,4-dichlorobenzene eq."/kg
[E1345] Acrolein (2-propenal) to industrial soil	360 kg 1,4-dichlorobenzene eq."/kg
[E1346] acrylonitrile to industrial soil	0.23 kg 1,4-dichlorobenzene eq."/kg
[E1347] aldicarb to industrial soil	2400 kg 1,4-dichlorobenzene eq."/kg
[E1348] aldrin to industrial soil	3 kg 1,4-dichlorobenzene eq."/kg
[E1350] anilazine to industrial soil	8.50E-06 kg 1,4-dichlorobenzene eq."/kg
[E1351] anthracene to industrial soil	32 kg 1,4-dichlorobenzene eq."/kg
[E1352] antimony to industrial soil	13000 kg 1,4-dichlorobenzene eq."/kg
[E1353] arsenic to industrial soil	77000 kg 1,4-dichlorobenzene eq."/kg
[E1354] atrazine to industrial soil	100 kg 1,4-dichlorobenzene eq."/kg
[E1355] azinphos-ethyl to industrial soil	11 kg 1,4-dichlorobenzene eq."/kg
[E1356] azinphos-methyl to industrial soil	0.17 kg 1,4-dichlorobenzene eq."/kg
[E1357] barium to industrial soil	3.60E+05 kg 1,4-dichlorobenzene eq."/kg
[E1358] benomyl to industrial soil	0.002 kg 1,4-dichlorobenzene eq."/kg
[E1359] bentazone to industrial soil	0.072 kg 1,4-dichlorobenzene eq."/kg
[E1360] benzene to industrial soil	0.0011 kg 1,4-dichlorobenzene eq."/kg
[E1361] benzo[a]anthracene to industrial soil	60 kg 1,4-dichlorobenzene eq."/kg
[E1362] benzo[a]pyrene to industrial soil	77 kg 1,4-dichlorobenzene eq."/kg
[E1363] benzo[ghi]perylene to industrial soil	150 kg 1,4-dichlorobenzene eq."/kg
[E1364] benzo[k]fluoranthrene to industrial soil	23000 kg 1,4-dichlorobenzene eq."/kg
[E1365] benzylchloride to industrial soil	0.045 kg 1,4-dichlorobenzene eq."/kg
[E1366] beryllium to industrial soil	1.20E+08 kg 1,4-dichlorobenzene eq."/kg
[E1367] bifenthrin to industrial soil	1.7 kg 1,4-dichlorobenzene eq."/kg

[E1368] Butylbenzylphtalate to industrial soil	2.80E-05 kg 1,4-dichlorobenzene eq."/kg
[E1369] cadmium to industrial soil	1.10E+05 kg 1,4-dichlorobenzene eq."/kg
[E1370] captafol to industrial soil	18000 kg 1,4-dichlorobenzene eq."/kg
[E1371] captan to industrial soil	9.90E-06 kg 1,4-dichlorobenzene eq."/kg
[E1372] carbaryl to industrial soil	0.0035 kg 1,4-dichlorobenzene eq."/kg
[E1373] carbendazim to industrial soil	140 kg 1,4-dichlorobenzene eq."/kg
[E1374] carbofuran to industrial soil	6.6 kg 1,4-dichlorobenzene eq."/kg
[E1375] carbon disulfide to industrial soil	0.79 kg 1,4-dichlorobenzene eq."/kg
[E1376] Carcinogenic PAHs to industrial soil	160 kg 1,4-dichlorobenzene eq."/kg
[E1377] chlordane to industrial soil	3.3 kg 1,4-dichlorobenzene eq."/kg
[E1378] chlorfenvinphos to industrial soil	0.37 kg 1,4-dichlorobenzene eq."/kg
[E1379] chloridazon to industrial soil	0.22 kg 1,4-dichlorobenzene eq."/kg
[E1380] chlorobenzene to industrial soil	0.037 kg 1,4-dichlorobenzene eq."/kg
[E1381] chlorothalonil to industrial soil	1.7 kg 1,4-dichlorobenzene eq."/kg
[E1382] chlorpropham to industrial soil	0.038 kg 1,4-dichlorobenzene eq."/kg
[E1383] chlorpyriphos to industrial soil	0.058 kg 1,4-dichlorobenzene eq."/kg
[E1384] chromium III to industrial soil	670 kg 1,4-dichlorobenzene eq."/kg
[E1385] chromium VI to industrial soil	2700 kg 1,4-dichlorobenzene eq."/kg
[E1386] chrysene to industrial soil	160 kg 1,4-dichlorobenzene eq."/kg
[E1387] cobalt to industrial soil	1.40E+06 kg 1,4-dichlorobenzene eq."/kg
[E1388] copper to industrial soil	1.20E+05 kg 1,4-dichlorobenzene eq."/kg
[E1389] coumaphos to industrial soil	6.70E+05 kg 1,4-dichlorobenzene eq."/kg
[E1390] cyanazine to industrial soil	14 kg 1,4-dichlorobenzene eq."/kg
[E1391] cypermethrin to industrial soil	2800 kg 1,4-dichlorobenzene eq."/kg
[E1392] cyromazine to industrial soil	350 kg 1,4-dichlorobenzene eq."/kg
[E1393] DDT to industrial soil	53 kg 1,4-dichlorobenzene eq."/kg
[E1394] deltamethrin to industrial soil	0.47 kg 1,4-dichlorobenzene eq."/kg
[E1395] demeton to industrial soil	15 kg 1,4-dichlorobenzene eq."/kg
[E1396] desmetryn to industrial soil	0.088 kg 1,4-dichlorobenzene eq."/kg
[E1397] Di(2-ethylhexyl)phtalate to industrial soil	4.40E-05 kg 1,4-dichlorobenzene eq."/kg
[E1398] diazinon to industrial soil	26 kg 1,4-dichlorobenzene eq."/kg
[E1399] Dibutylphtalate to industrial soil	4.50E-05 kg 1,4-dichlorobenzene eq."/kg
[E1400] Dichloromethane (Methylene Chloride) to industrial soil	0.00092 kg 1,4-dichlorobenzene eq."/kg
[E1401] dichlorprop to industrial soil	7.40E-05 kg 1,4-dichlorobenzene eq."/kg
[E1402] dichlorvos to industrial soil	0.011 kg 1,4-dichlorobenzene eq."/kg
[E1403] dieldrin to industrial soil	11 kg 1,4-dichlorobenzene eq."/kg
[E1404] Diethylphtalate to industrial soil	0.0022 kg 1,4-dichlorobenzene eq."/kg
[E1405] Dihexylphtalate to industrial soil	0.0032 kg 1,4-dichlorobenzene eq."/kg
[E1406] Diisodecylphtalate to industrial soil	0.0054 kg 1,4-dichlorobenzene eq."/kg
[E1407] Diisooctylphtalate to industrial soil	0.00041 kg 1,4-dichlorobenzene eq."/kg
[E1408] dimethoate to industrial soil	0.15 kg 1,4-dichlorobenzene eq."/kg
[E1409] Dimethylphtalate to industrial soil	9.10E-06 kg 1,4-dichlorobenzene eq."/kg
[E1410] dinoseb to industrial soil	430 kg 1,4-dichlorobenzene eq."/kg
[E1411] dinoterb to industrial soil	13 kg 1,4-dichlorobenzene eq."/kg
[E1412] Dioctylphtalate to industrial soil	5.10E-06 kg 1,4-dichlorobenzene eq."/kg
[E1413] disulfothon to industrial soil	0.16 kg 1,4-dichlorobenzene eq."/kg
[E1414] diuron to industrial soil	0.16 kg 1,4-dichlorobenzene eq."/kg
[E1415] DNOC to industrial soil	0.0033 kg 1,4-dichlorobenzene eq."/kg
[E1416] endosulfan to industrial soil	0.00036 kg 1,4-dichlorobenzene eq."/kg
[E1417] endrin to industrial soil	2500 kg 1,4-dichlorobenzene eq."/kg
[E1418] ethoprophos to industrial soil	970 kg 1,4-dichlorobenzene eq."/kg
[E1419] ethylbenzene to industrial soil	0.00032 kg 1,4-dichlorobenzene eq."/kg
[E1420] ethylene to industrial soil	7.10E-11 kg 1,4-dichlorobenzene eq."/kg
[E1421] fenitrothion to industrial soil	4.5 kg 1,4-dichlorobenzene eq."/kg
[E1422] fenthion to industrial soil	39 kg 1,4-dichlorobenzene eq."/kg
[E1423] fentin acetate to industrial soil	72 kg 1,4-dichlorobenzene eq."/kg
[E1424] fentin chloride to industrial soil	470 kg 1,4-dichlorobenzene eq."/kg
[E1425] fentin hydroxide to industrial soil	65 kg 1,4-dichlorobenzene eq."/kg
[E1426] fluoranthrene to industrial soil	17 kg 1,4-dichlorobenzene eq."/kg
[E1427] folpet to industrial soil	2700 kg 1,4-dichlorobenzene eq."/kg
[E1428] Formaldehyde (methanal) to industrial soil	0.055 kg 1,4-dichlorobenzene eq."/kg
[E1429] glyphosate to industrial soil	0.0099 kg 1,4-dichlorobenzene eq."/kg
[E1430] heptachlor to industrial soil	0.079 kg 1,4-dichlorobenzene eq."/kg
[E1431] heptenophos to industrial soil	0.02 kg 1,4-dichlorobenzene eq."/kg
[E1432] hexachloro-1,3-butadiene to industrial soil	13000 kg 1,4-dichlorobenzene eq."/kg
[E1433] hexachlorobenzene to industrial soil	1100 kg 1,4-dichlorobenzene eq."/kg
[E1436] indeno[1,2,3-cd]pyrene to industrial soil	240 kg 1,4-dichlorobenzene eq."/kg

[E1437] iprodione to industrial soil	2.90E-06 kg 1,4-dichlorobenzene eq."/kg
[E1438] isoproturon to industrial soil	2.7 kg 1,4-dichlorobenzene eq."/kg
[E1439] lead to industrial soil	780 kg 1,4-dichlorobenzene eq."/kg
[E1440] lindane to industrial soil	1.1 kg 1,4-dichlorobenzene eq."/kg
[E1441] linuron to industrial soil	57 kg 1,4-dichlorobenzene eq."/kg
[E1442] malathion to industrial soil	1.5 kg 1,4-dichlorobenzene eq."/kg
[E1443] MCPA to industrial soil	0.0027 kg 1,4-dichlorobenzene eq."/kg
[E1444] mecoprop to industrial soil	0.18 kg 1,4-dichlorobenzene eq."/kg
[E1445] mercury to industrial soil	1.70E+05 kg 1,4-dichlorobenzene eq."/kg
[E1446] metamitron to industrial soil	0.0032 kg 1,4-dichlorobenzene eq."/kg
[E1447] metazachlor to industrial soil	0.14 kg 1,4-dichlorobenzene eq."/kg
[E1448] methabenzthiazuron to industrial soil	4.7 kg 1,4-dichlorobenzene eq."/kg
[E1449] methomyl to industrial soil	1100 kg 1,4-dichlorobenzene eq."/kg
[E1450] methylbromide to industrial soil	0.83 kg 1,4-dichlorobenzene eq."/kg
[E1451] methyl-mercury to industrial soil	3.90E+06 kg 1,4-dichlorobenzene eq."/kg
[E1452] metobromuron to industrial soil	16 kg 1,4-dichlorobenzene eq."/kg
[E1453] metolachlor to industrial soil	130 kg 1,4-dichlorobenzene eq."/kg
[E1454] mevinphos to industrial soil	0.16 kg 1,4-dichlorobenzene eq."/kg
[E1455] molybdenum to industrial soil	9.60E+05 kg 1,4-dichlorobenzene eq."/kg
[E1456] m-xylene to industrial soil	0.00023 kg 1,4-dichlorobenzene eq."/kg
[E1457] naphtalene to industrial soil	0.067 kg 1,4-dichlorobenzene eq."/kg
[E1458] nickel to industrial soil	1.20E+06 kg 1,4-dichlorobenzene eq."/kg
[E1460] oxamyl to industrial soil	0.0099 kg 1,4-dichlorobenzene eq."/kg
[E1461] oxydemethon-methyl to industrial soil	3 kg 1,4-dichlorobenzene eq."/kg
[E1462] o-xylene to industrial soil	0.0006 kg 1,4-dichlorobenzene eq."/kg
[E1463] parathion-ethyl to industrial soil	3.8 kg 1,4-dichlorobenzene eq."/kg
[E1464] parathion-methyl to industrial soil	0.98 kg 1,4-dichlorobenzene eq."/kg
[E1465] pentachlorobenzene to industrial soil	27 kg 1,4-dichlorobenzene eq."/kg
[E1466] pentachloronitrobenzene to industrial soil	8.8 kg 1,4-dichlorobenzene eq."/kg
[E1467] pentachlorophenol to industrial soil	0.049 kg 1,4-dichlorobenzene eq."/kg
[E1468] permethrin to industrial soil	17 kg 1,4-dichlorobenzene eq."/kg
[E1469] phenanthrene to industrial soil	0.028 kg 1,4-dichlorobenzene eq."/kg
[E1470] phenol to industrial soil	0.004 kg 1,4-dichlorobenzene eq."/kg
[E1471] phoxim to industrial soil	0.072 kg 1,4-dichlorobenzene eq."/kg
[E1472] Phtalic anhydride to industrial soil	6.80E-11 kg 1,4-dichlorobenzene eq."/kg
[E1473] pirimicarb to industrial soil	35 kg 1,4-dichlorobenzene eq."/kg
[E1475] propachlor to industrial soil	0.15 kg 1,4-dichlorobenzene eq."/kg
[E1476] propoxur to industrial soil	110 kg 1,4-dichlorobenzene eq."/kg
[E1477] propylene oxide to industrial soil	0.018 kg 1,4-dichlorobenzene eq."/kg
[E1478] p-xylene to industrial soil	0.0002 kg 1,4-dichlorobenzene eq."/kg
[E1479] pyrazophos to industrial soil	2.5 kg 1,4-dichlorobenzene eq."/kg
[E1480] selenium to industrial soil	5.40E+06 kg 1,4-dichlorobenzene eq."/kg
[E1481] simazine to industrial soil	46 kg 1,4-dichlorobenzene eq."/kg
[E1482] styrene (vinylbenzene) to industrial soil	0.00013 kg 1,4-dichlorobenzene eq."/kg
[E1484] tetrachloroethylene (PER) to industrial soil	0.043 kg 1,4-dichlorobenzene eq."/kg
[E1485] Tetrachloromethane (carbon tetrachloride) (HC-10) to industrial soil	0.3 kg 1,4-dichlorobenzene eq."/kg
[E1486] thallium to industrial soil	1.30E+07 kg 1,4-dichlorobenzene eq."/kg
[E1487] Thiram to industrial soil	0.37 kg 1,4-dichlorobenzene eq."/kg
[E1488] tin to industrial soil	170 kg 1,4-dichlorobenzene eq."/kg
[E1489] tolclophos-methyl to industrial soil	0.44 kg 1,4-dichlorobenzene eq."/kg
[E1490] toluene to industrial soil	0.00037 kg 1,4-dichlorobenzene eq."/kg
[E1491] tri-allate to industrial soil	0.93 kg 1,4-dichlorobenzene eq."/kg
[E1492] triazophos to industrial soil	240 kg 1,4-dichlorobenzene eq."/kg
[E1493] tributyltinoxide to industrial soil	3000 kg 1,4-dichlorobenzene eq."/kg
[E1494] trichlorfon to industrial soil	0.56 kg 1,4-dichlorobenzene eq."/kg
[E1495] Trichloroethylene (tri) to industrial soil	0.0015 kg 1,4-dichlorobenzene eq."/kg
[E1496] Trichloromethane=chloroform to industrial soil	0.013 kg 1,4-dichlorobenzene eq."/kg
[E1497] trifluarin to industrial soil	1.9 kg 1,4-dichlorobenzene eq."/kg
[E1498] vanadium to industrial soil	4.10E+06 kg 1,4-dichlorobenzene eq."/kg
[E1499] Vinyl Chloride (chloroethene) to industrial soil	0.00012 kg 1,4-dichlorobenzene eq."/kg
[E1500] zinc to industrial soil	7300 kg 1,4-dichlorobenzene eq."/kg
[E1501] zineb to industrial soil	14 kg 1,4-dichlorobenzene eq."/kg

Category = [C10] Terrestrial ecotoxicity
Description = Problem oriented approach, manual 1999; TETP
Author = Huijbregts, 1999

Date = 27-09-1999

Environmental resources

Environmental resource	Value	Unit

Environmental emissions

Environmental emission	Value	Unit
[E90] 1,1,1-trichloroethane (methyl chloroform; HC-140a) to air	0.00018	kg 1,4-dichlorobenzene eq."/kg
[E94] 1,2,3,4-tetrachlorobenzene to air	0.0099	kg 1,4-dichlorobenzene eq."/kg
[E95] 1,2,3,5-tetrachlorobenzene to air	0.18	kg 1,4-dichlorobenzene eq."/kg
[E96] 1,2,3-trichlorobenzene to air	0.075	kg 1,4-dichlorobenzene eq."/kg
[E98] 1,2,4,5-tetrachlorobenzene to air	0.24	kg 1,4-dichlorobenzene eq."/kg
[E99] 1,2,4-trichlorobenzene to air	0.0088	kg 1,4-dichlorobenzene eq."/kg
[E102] 1,2-dichlorobenzene to air	0.00053	kg 1,4-dichlorobenzene eq."/kg
[E103] 1,2-dichloroethane to air	2.60E-05	kg 1,4-dichlorobenzene eq."/kg
[E107] 1,3,5-trichlorobenzene to air	0.0019	kg 1,4-dichlorobenzene eq."/kg
[E111] 1,3-Butadiene to air	2.30E-08	kg 1,4-dichlorobenzene eq."/kg
[E112] 1,3-dichlorobenzene to air	0.00044	kg 1,4-dichlorobenzene eq."/kg
[E116] 1,4-dichlorobenzene to air	0.012	kg 1,4-dichlorobenzene eq."/kg
[E128] 1-chloro-4-nitrobenzene to air	0.54	kg 1,4-dichlorobenzene eq."/kg
[E166] 2,3,4,6-tetrachlorophenol to air	0.31	kg 1,4-dichlorobenzene eq."/kg
[E168] 2,3,7,8-TCDD (tetrachloride-dibenzo-dioxin) to air	12000	kg 1,4-dichlorobenzene eq."/kg
[E172] 2,4,5-T to air	0.32	kg 1,4-dichlorobenzene eq."/kg
[E173] 2,4,5-trichlorophenol to air	0.24	kg 1,4-dichlorobenzene eq."/kg
[E174] 2,4,6-trichlorophenol to air	0.32	kg 1,4-dichlorobenzene eq."/kg
[E175] 2,4-D to air	0.6	kg 1,4-dichlorobenzene eq."/kg
[E176] 2,4-dichlorophenol to air	0.03	kg 1,4-dichlorobenzene eq."/kg
[E185] 2-chlorophenol to air	0.053	kg 1,4-dichlorobenzene eq."/kg
[E208] 3,4-dichloroaniline to air	8.7	kg 1,4-dichlorobenzene eq."/kg
[E217] 3-chloroaniline to air	0.47	kg 1,4-dichlorobenzene eq."/kg
[E228] 4-chloroaniline to air	0.016	kg 1,4-dichlorobenzene eq."/kg
[E231] acephate to air	0.69	kg 1,4-dichlorobenzene eq."/kg
[E236] Acrolein (2-propenal) to air	16	kg 1,4-dichlorobenzene eq."/kg
[E237] Acrylonitrile to air	0.008	kg 1,4-dichlorobenzene eq."/kg
[E241] aldicarb to air	2000	kg 1,4-dichlorobenzene eq."/kg
[E242] aldrin to air	0.014	kg 1,4-dichlorobenzene eq."/kg
[E251] anilazine to air	0.092	kg 1,4-dichlorobenzene eq."/kg
[E252] anthracene to air	0.032	kg 1,4-dichlorobenzene eq."/kg
[E253] antimony to air	0.61	kg 1,4-dichlorobenzene eq."/kg
[E255] arsenic to air	1600	kg 1,4-dichlorobenzene eq."/kg
[E256] atrazine to air	2	kg 1,4-dichlorobenzene eq."/kg
[E257] azinphos-ethyl to air	2.4	kg 1,4-dichlorobenzene eq."/kg
[E258] azinphos-methyl to air	0.19	kg 1,4-dichlorobenzene eq."/kg
[E259] barium to air	4.9	kg 1,4-dichlorobenzene eq."/kg
[E260] benomyl to air	0.47	kg 1,4-dichlorobenzene eq."/kg
[E261] bentazone to air	0.25	kg 1,4-dichlorobenzene eq."/kg
[E263] Benzene to air	1.60E-05	kg 1,4-dichlorobenzene eq."/kg
[E264] benzo[a]anthracene to air	0.23	kg 1,4-dichlorobenzene eq."/kg
[E265] benzo[a]pyrene to air	0.24	kg 1,4-dichlorobenzene eq."/kg
[E266] benzo[ghi]perylene to air	0.2	kg 1,4-dichlorobenzene eq."/kg
[E267] benzo[k]fluoranthrene to air	30	kg 1,4-dichlorobenzene eq."/kg
[E269] benzylchloride to air	0.0017	kg 1,4-dichlorobenzene eq."/kg
[E270] beryllium to air	1800	kg 1,4-dichlorobenzene eq."/kg
[E272] bifenthrin to air	8.8	kg 1,4-dichlorobenzene eq."/kg
[E290] Butylbenzylphtalate to air	0.0013	kg 1,4-dichlorobenzene eq."/kg
[E385] cadmium to air	81	kg 1,4-dichlorobenzene eq."/kg
[E387] captafol to air	5.9	kg 1,4-dichlorobenzene eq."/kg
[E388] captan to air	0.024	kg 1,4-dichlorobenzene eq."/kg
[E389] carbaryl to air	0.063	kg 1,4-dichlorobenzene eq."/kg
[E390] carbendazim to air	20	kg 1,4-dichlorobenzene eq."/kg
[E391] carbofuran to air	3	kg 1,4-dichlorobenzene eq."/kg
[E394] carbon disulfide to air	0.0051	kg 1,4-dichlorobenzene eq."/kg
[E404] chlordane to air	2.2	kg 1,4-dichlorobenzene eq."/kg
[E405] chlorfenvinphos to air	0.49	kg 1,4-dichlorobenzene eq."/kg
[E406] chloridazon to air	0.00046	kg 1,4-dichlorobenzene eq."/kg
[E407] chlorobenzene to air	0.00073	kg 1,4-dichlorobenzene eq."/kg
[E410] chlorothalonil to air	0.0071	kg 1,4-dichlorobenzene eq."/kg

[E411] chlorpropham to air	0.037 kg 1,4-dichlorobenzene eq."/kg
[E412] chlorpyriphos to air	0.13 kg 1,4-dichlorobenzene eq."/kg
[E413] chromium (unspecified) to air	3000 kg 1,4-dichlorobenzene eq."/kg
[E414] chromium III to air	3000 kg 1,4-dichlorobenzene eq."/kg
[E415] chromium VI to air	3000 kg 1,4-dichlorobenzene eq."/kg
[E416] chrysene to air	0.22 kg 1,4-dichlorobenzene eq."/kg
[E421] cobalt to air	110 kg 1,4-dichlorobenzene eq."/kg
[E422] copper to air	7 kg 1,4-dichlorobenzene eq."/kg
[E423] coumaphos to air	1000 kg 1,4-dichlorobenzene eq."/kg
[E425] cyanazine to air	31 kg 1,4-dichlorobenzene eq."/kg
[E437] cypermethrin to air	8900 kg 1,4-dichlorobenzene eq."/kg
[E438] cyromazine to air	310 kg 1,4-dichlorobenzene eq."/kg
[E439] DDT to air	19 kg 1,4-dichlorobenzene eq."/kg
[E441] deltamethrin to air	0.76 kg 1,4-dichlorobenzene eq."/kg
[E442] demeton to air	0.3 kg 1,4-dichlorobenzene eq."/kg
[E443] desmetryn to air	1.2 kg 1,4-dichlorobenzene eq."/kg
[E444] Di(2-ethylhexyl)phtalate to air	0.00022 kg 1,4-dichlorobenzene eq."/kg
[E446] diazinon to air	0.29 kg 1,4-dichlorobenzene eq."/kg
[E448] Dibutylphtalate to air	0.0039 kg 1,4-dichlorobenzene eq."/kg
[E449] Dichloromethane (Methylene Chloride) to air	4.30E-06 kg 1,4-dichlorobenzene eq."/kg
[E450] dichlorprop to air	0.00068 kg 1,4-dichlorobenzene eq."/kg
[E451] dichlorvos to air	9.8 kg 1,4-dichlorobenzene eq."/kg
[E452] dieldrin to air	1.1 kg 1,4-dichlorobenzene eq."/kg
[E456] Diethylphtalate to air	0.53 kg 1,4-dichlorobenzene eq."/kg
[E457] Dihexylphtalate to air	0.00078 kg 1,4-dichlorobenzene eq."/kg
[E458] Diisodecylphtalate to air	0.00092 kg 1,4-dichlorobenzene eq."/kg
[E459] Diisooctylphtalate to air	0.00011 kg 1,4-dichlorobenzene eq."/kg
[E461] dimethoate to air	0.3 kg 1,4-dichlorobenzene eq."/kg
[E468] Dimethylphtalate to air	0.64 kg 1,4-dichlorobenzene eq."/kg
[E470] dinoseb to air	97 kg 1,4-dichlorobenzene eq."/kg
[E471] dinoterb to air	3.4 kg 1,4-dichlorobenzene eq."/kg
[E472] Dioctylphtalate to air	9.80E-06 kg 1,4-dichlorobenzene eq."/kg
[E475] disulfothon to air	0.043 kg 1,4-dichlorobenzene eq."/kg
[E476] diuron to air	0.043 kg 1,4-dichlorobenzene eq."/kg
[E478] DNOC to air	0.24 kg 1,4-dichlorobenzene eq."/kg
[E480] endosulfan to air	0.036 kg 1,4-dichlorobenzene eq."/kg
[E481] endrin to air	49 kg 1,4-dichlorobenzene eq."/kg
[E487] ethoprophos to air	17 kg 1,4-dichlorobenzene eq."/kg
[E496] Ethylbenzene to air	1.40E-06 kg 1,4-dichlorobenzene eq."/kg
[E499] Ethylene (ethene) to air	1.30E-12 kg 1,4-dichlorobenzene eq."/kg
[E504] fenitrothion to air	21 kg 1,4-dichlorobenzene eq."/kg
[E505] fenthion to air	16 kg 1,4-dichlorobenzene eq."/kg
[E506] fentin acetate to air	5.3 kg 1,4-dichlorobenzene eq."/kg
[E507] fentin chloride to air	0.26 kg 1,4-dichlorobenzene eq."/kg
[E508] fentin hydroxide to air	5.5 kg 1,4-dichlorobenzene eq."/kg
[E509] fluoranthrene to air	0.018 kg 1,4-dichlorobenzene eq."/kg
[E510] folpet to air	1.7 kg 1,4-dichlorobenzene eq."/kg
[E511] Formaldehyde (methanal) to air	0.94 kg 1,4-dichlorobenzene eq."/kg
[E516] glyphosate to air	0.047 kg 1,4-dichlorobenzene eq."/kg
[E533] heptachlor to air	0.00088 kg 1,4-dichlorobenzene eq."/kg
[E535] heptenophos to air	2.2 kg 1,4-dichlorobenzene eq."/kg
[E536] hexachloro-1,3-butadiene to air	4.2 kg 1,4-dichlorobenzene eq."/kg
[E537] hexachlorobenzene to air	0.26 kg 1,4-dichlorobenzene eq."/kg
[E566] indeno[1,2,3-cd]pyrene to air	0.8 kg 1,4-dichlorobenzene eq."/kg
[E568] iprodione to air	0.11 kg 1,4-dichlorobenzene eq."/kg
[E583] isoproturon to air	2.5 kg 1,4-dichlorobenzene eq."/kg
[E584] lead to air	16 kg 1,4-dichlorobenzene eq."/kg
[E585] lindane to air	1.8 kg 1,4-dichlorobenzene eq."/kg
[E586] linuron to air	0.2 kg 1,4-dichlorobenzene eq."/kg
[E587] malathion to air	0.02 kg 1,4-dichlorobenzene eq."/kg
[E589] MCPA to air	0.043 kg 1,4-dichlorobenzene eq."/kg
[E590] mecoprop to air	1.8 kg 1,4-dichlorobenzene eq."/kg
[E592] mercury to air	28000 kg 1,4-dichlorobenzene eq."/kg
[E595] metamitron to air	0.019 kg 1,4-dichlorobenzene eq."/kg
[E596] meta-Xylene (1,3-dimethylbenzene) to air	6.50E-07 kg 1,4-dichlorobenzene eq."/kg
[E597] metazachlor to air	0.074 kg 1,4-dichlorobenzene eq."/kg
[E598] methabenzthiazuron to air	0.45 kg 1,4-dichlorobenzene eq."/kg

[E603] methomyl to air	120 kg 1,4-dichlorobenzene eq."/kg
[E626] methyl-mercury to air	28000 kg 1,4-dichlorobenzene eq."/kg
[E628] metobromuron to air	0.99 kg 1,4-dichlorobenzene eq."/kg
[E629] metolachlor to air	0.11 kg 1,4-dichlorobenzene eq."/kg
[E630] mevinphos to air	43 kg 1,4-dichlorobenzene eq."/kg
[E632] molybdenum to air	18 kg 1,4-dichlorobenzene eq."/kg
[E633] Naphtalene to air	0.00083 kg 1,4-dichlorobenzene eq."/kg
[E635] nickel to air	120 kg 1,4-dichlorobenzene eq."/kg
[E650] ortho-Xylene (1,2-dimethylbenzene) to air	1.30E-06 kg 1,4-dichlorobenzene eq."/kg
[E651] oxamyl to air	2.9 kg 1,4-dichlorobenzene eq."/kg
[E652] oxydemethon-methyl to air	41 kg 1,4-dichlorobenzene eq."/kg
[E655] parathion-ethyl to air	1.1 kg 1,4-dichlorobenzene eq."/kg
[E656] parathion-methyl to air	5.7 kg 1,4-dichlorobenzene eq."/kg
[E658] para-Xylene (1,4-dimethylbenzene) to air	5.30E-07 kg 1,4-dichlorobenzene eq."/kg
[E660] pentachlorobenzene to air	0.039 kg 1,4-dichlorobenzene eq."/kg
[E661] pentachloronitrobenzene to air	0.12 kg 1,4-dichlorobenzene eq."/kg
[E662] pentachlorophenol to air	2.3 kg 1,4-dichlorobenzene eq."/kg
[E672] permethrin to air	26 kg 1,4-dichlorobenzene eq."/kg
[E674] phenanthrene to air	0.00014 kg 1,4-dichlorobenzene eq."/kg
[E675] Phenol to air	0.0033 kg 1,4-dichlorobenzene eq."/kg
[E679] phoxim to air	0.017 kg 1,4-dichlorobenzene eq."/kg
[E680] Phtalic anhydride to air	0.0005 kg 1,4-dichlorobenzene eq."/kg
[E682] pirimicarb to air	46 kg 1,4-dichlorobenzene eq."/kg
[E685] Polycyclic Aromatic Hydrocarbons Carcinogenic- (carcinogenic-PAH) to air	1 kg 1,4-dichlorobenzene eq."/kg
[E686] propachlor to air	0.54 kg 1,4-dichlorobenzene eq."/kg
[E690] propoxur to air	700 kg 1,4-dichlorobenzene eq."/kg
[E697] Propylene Oxide to air	0.0015 kg 1,4-dichlorobenzene eq."/kg
[E698] pyrazophos to air	2.3 kg 1,4-dichlorobenzene eq."/kg
[E704] selenium to air	53 kg 1,4-dichlorobenzene eq."/kg
[E705] simazine to air	8.8 kg 1,4-dichlorobenzene eq."/kg
[E706] styrene (vinylbenzene) to air	1.40E-07 kg 1,4-dichlorobenzene eq."/kg
[E718] tetrachloroethylene (PER) (tetrachloroethene) to air	0.0081 kg 1,4-dichlorobenzene eq."/kg
[E719] Tetrachloromethane (carbon tetrachloride) (HC-10) to air	0.00047 kg 1,4-dichlorobenzene eq."/kg
[E722] thallium to air	340 kg 1,4-dichlorobenzene eq."/kg
[E723] Thiram to air	32 kg 1,4-dichlorobenzene eq."/kg
[E724] tin to air	14 kg 1,4-dichlorobenzene eq."/kg
[E725] tolclophos-methyl to air	0.00034 kg 1,4-dichlorobenzene eq."/kg
[E727] Toluene to air	1.60E-05 kg 1,4-dichlorobenzene eq."/kg
[E733] tri-allate to air	0.0069 kg 1,4-dichlorobenzene eq."/kg
[E734] triazophos to air	34 kg 1,4-dichlorobenzene eq."/kg
[E735] tributyltinoxide to air	17 kg 1,4-dichlorobenzene eq."/kg
[E736] trichlorfon to air	1200 kg 1,4-dichlorobenzene eq."/kg
[E737] Trichloroethylene (tri) to air	4.70E-06 kg 1,4-dichlorobenzene eq."/kg
[E738] Trichloromethane (chloroform) to air	4.00E-05 kg 1,4-dichlorobenzene eq."/kg
[E739] trifluarin to air	0.017 kg 1,4-dichlorobenzene eq."/kg
[E743] vanadium to air	670 kg 1,4-dichlorobenzene eq."/kg
[E745] Vinyl Chloride (chloroethene) to air	2.60E-07 kg 1,4-dichlorobenzene eq."/kg
[E748] zinc to air	12 kg 1,4-dichlorobenzene eq."/kg
[E749] zineb to air	7.2 kg 1,4-dichlorobenzene eq."/kg
[E750] 1,1,1-trichloroethane to air	0.00018 kg 1,4-dichlorobenzene eq."/kg
[E751] 1,2,3,4-tetrachlorobenzene to air	0.0093 kg 1,4-dichlorobenzene eq."/kg
[E752] 1,2,3,5-tetrachlorobenzene to air	0.17 kg 1,4-dichlorobenzene eq."/kg
[E753] 1,2,3-trichlorobenzene to air	0.073 kg 1,4-dichlorobenzene eq."/kg
[E754] 1,2,4,5-tetrachlorobenzene to air	0.23 kg 1,4-dichlorobenzene eq."/kg
[E755] 1,2,4-trichlorobenzene to air	0.0085 kg 1,4-dichlorobenzene eq."/kg
[E756] 1,2-dichlorobenzene to air	0.00052 kg 1,4-dichlorobenzene eq."/kg
[E757] 1,2-dichloroethane to air	2.60E-05 kg 1,4-dichlorobenzene eq."/kg
[E758] 1,3,5-trichlorobenzene to air	0.0018 kg 1,4-dichlorobenzene eq."/kg
[E759] 1,3-butadiene to air	2.10E-08 kg 1,4-dichlorobenzene eq."/kg
[E760] 1,3-dichlorobenzene to air	0.00042 kg 1,4-dichlorobenzene eq."/kg
[E761] 1,4-dichlorobenzene to air	0.012 kg 1,4-dichlorobenzene eq."/kg
[E762] 1-chloro-4-nitrobenzene to air	0.44 kg 1,4-dichlorobenzene eq."/kg
[E763] 2,3,4,6-tetrachlorophenol to air	0.0017 kg 1,4-dichlorobenzene eq."/kg
[E764] 2,3,7,8-TCDD to air	590 kg 1,4-dichlorobenzene eq."/kg
[E765] 2,4,5-T to air	3.60E-08 kg 1,4-dichlorobenzene eq."/kg
[E766] 2,4,5-trichlorophenol to air	0.061 kg 1,4-dichlorobenzene eq."/kg
[E767] 2,4,6-trichlorophenol to fresh water	0.00067 kg 1,4-dichlorobenzene eq."/kg

[E768] 2,4-D to fresh water	9.30E-10 kg 1,4-dichlorobenzene eq."/kg
[E769] 2,4-dichlorophenol to fresh water	0.00096 kg 1,4-dichlorobenzene eq."/kg
[E770] 2-chlorophenol to fresh water	0.0013 kg 1,4-dichlorobenzene eq."/kg
[E771] 3,4-dichloroaniline to fresh water	0.00076 kg 1,4-dichlorobenzene eq."/kg
[E772] 3-chloroaniline to fresh water	9.40E-06 kg 1,4-dichlorobenzene eq."/kg
[E773] 4-chloroaniline to fresh water	0.0036 kg 1,4-dichlorobenzene eq."/kg
[E774] acephate to fresh water	2.20E-08 kg 1,4-dichlorobenzene eq."/kg
[E775] Acrolein (2-propenal) to fresh water	5.8 kg 1,4-dichlorobenzene eq."/kg
[E776] acrylonitrile to fresh water	0.0039 kg 1,4-dichlorobenzene eq."/kg
[E777] aldicarb to fresh water	0.19 kg 1,4-dichlorobenzene eq."/kg
[E778] aldrin to fresh water	0.014 kg 1,4-dichlorobenzene eq."/kg
[E780] anilazine to fresh water	5.00E-08 kg 1,4-dichlorobenzene eq."/kg
[E781] anthracene to fresh water	0.02 kg 1,4-dichlorobenzene eq."/kg
[E782] antimony to fresh water	1.70E-20 kg 1,4-dichlorobenzene eq."/kg
[E783] arsenic to fresh water	1.00E-17 kg 1,4-dichlorobenzene eq."/kg
[E784] atrazine to fresh water	0.00076 kg 1,4-dichlorobenzene eq."/kg
[E785] azinphos-ethyl to fresh water	0.021 kg 1,4-dichlorobenzene eq."/kg
[E786] azinphos-methyl to fresh water	3.30E-06 kg 1,4-dichlorobenzene eq."/kg
[E787] barium to fresh water	5.10E-19 kg 1,4-dichlorobenzene eq."/kg
[E788] benomyl to fresh water	8.20E-08 kg 1,4-dichlorobenzene eq."/kg
[E789] bentazone to fresh water	1.80E-07 kg 1,4-dichlorobenzene eq."/kg
[E790] benzene to fresh water	1.40E-05 kg 1,4-dichlorobenzene eq."/kg
[E791] benzo[a]anthracene to fresh water	0.014 kg 1,4-dichlorobenzene eq."/kg
[E792] benzo[a]pyrene to fresh water	0.0025 kg 1,4-dichlorobenzene eq."/kg
[E793] benzo[ghi]perylene to fresh water	0.00043 kg 1,4-dichlorobenzene eq."/kg
[E794] benzo[k]fluoranthrene to fresh water	0.21 kg 1,4-dichlorobenzene eq."/kg
[E795] benzylchloride to fresh water	0.00083 kg 1,4-dichlorobenzene eq."/kg
[E796] beryllium to fresh water	3.30E-16 kg 1,4-dichlorobenzene eq."/kg
[E797] bifenthrin to fresh water	0.021 kg 1,4-dichlorobenzene eq."/kg
[E800] Butylbenzylphtalate to fresh water	6.60E-06 kg 1,4-dichlorobenzene eq."/kg
[E801] cadmium to fresh water	1.40E-20 kg 1,4-dichlorobenzene eq."/kg
[E802] captafol to fresh water	1.90E-07 kg 1,4-dichlorobenzene eq."/kg
[E803] captan to fresh water	6.20E-08 kg 1,4-dichlorobenzene eq."/kg
[E804] carbaryl to fresh water	2.60E-07 kg 1,4-dichlorobenzene eq."/kg
[E805] carbendazim to fresh water	6.30E-08 kg 1,4-dichlorobenzene eq."/kg
[E806] carbofuran to fresh water	3.50E-05 kg 1,4-dichlorobenzene eq."/kg
[E807] carbon disulfide to fresh water	0.0048 kg 1,4-dichlorobenzene eq."/kg
[E808] Carcinogenic PAHs to fresh water	0.0021 kg 1,4-dichlorobenzene eq."/kg
[E810] chlordane to fresh water	0.097 kg 1,4-dichlorobenzene eq."/kg
[E811] chlorfenvinphos to fresh water	4.60E-05 kg 1,4-dichlorobenzene eq."/kg
[E812] chloridazon to fresh water	0.00038 kg 1,4-dichlorobenzene eq."/kg
[E814] chlorobenzene to fresh water	0.00072 kg 1,4-dichlorobenzene eq."/kg
[E815] chlorothalonil to fresh water	0.0055 kg 1,4-dichlorobenzene eq."/kg
[E816] chlorpropham to fresh water	2.50E-05 kg 1,4-dichlorobenzene eq."/kg
[E817] chlorpyriphos to fresh water	0.021 kg 1,4-dichlorobenzene eq."/kg
[E818] chromium III to fresh water	2.30E-19 kg 1,4-dichlorobenzene eq."/kg
[E819] chromium VI to fresh water	2.30E-19 kg 1,4-dichlorobenzene eq."/kg
[E820] chrysene to fresh water	0.0084 kg 1,4-dichlorobenzene eq."/kg
[E821] cobalt to fresh water	2.70E-18 kg 1,4-dichlorobenzene eq."/kg
[E822] copper to fresh water	4.10E-21 kg 1,4-dichlorobenzene eq."/kg
[E823] coumaphos to fresh water	6 kg 1,4-dichlorobenzene eq."/kg
[E824] cyanazine to fresh water	2.20E-06 kg 1,4-dichlorobenzene eq."/kg
[E825] cypermethrin to fresh water	16 kg 1,4-dichlorobenzene eq."/kg
[E826] cyromazine to fresh water	1.90E-06 kg 1,4-dichlorobenzene eq."/kg
[E827] DDT to fresh water	0.31 kg 1,4-dichlorobenzene eq."/kg
[E828] deltamethrin to fresh water	0.032 kg 1,4-dichlorobenzene eq."/kg
[E829] demeton to fresh water	0.012 kg 1,4-dichlorobenzene eq."/kg
[E830] desmetryn to fresh water	3.60E-05 kg 1,4-dichlorobenzene eq."/kg
[E831] Di(2-ethylhexyl)phtalate to fresh water	6.60E-06 kg 1,4-dichlorobenzene eq."/kg
[E832] diazinon to fresh water	0.0041 kg 1,4-dichlorobenzene eq."/kg
[E833] Dibutylphtalate to fresh water	1.30E-05 kg 1,4-dichlorobenzene eq."/kg
[E834] Dichloromethane (Methylene Chloride) to fresh water	3.90E-06 kg 1,4-dichlorobenzene eq."/kg
[E835] dichlorprop to fresh water	6.10E-12 kg 1,4-dichlorobenzene eq."/kg
[E836] dichlorvos to fresh water	0.014 kg 1,4-dichlorobenzene eq."/kg
[E837] dieldrin to fresh water	0.26 kg 1,4-dichlorobenzene eq."/kg
[E838] Diethylphtalate to fresh water	0.0056 kg 1,4-dichlorobenzene eq."/kg
[E839] Dihexylphtalate to fresh water	0.00026 kg 1,4-dichlorobenzene eq."/kg

[E840] Diisodecylphtalate to fresh water	0.00038 kg 1,4-dichlorobenzene eq."/kg
[E841] Diisooctylphtalate to fresh water	6.40E-06 kg 1,4-dichlorobenzene eq."/kg
[E842] dimethoate to fresh water	1.20E-05 kg 1,4-dichlorobenzene eq."/kg
[E843] Dimethylphtalate to fresh water	0.00037 kg 1,4-dichlorobenzene eq."/kg
[E844] dinoseb to fresh water	0.34 kg 1,4-dichlorobenzene eq."/kg
[E845] dinoterb to fresh water	0.013 kg 1,4-dichlorobenzene eq."/kg
[E846] Dioctylphtalate to fresh water	1.30E-07 kg 1,4-dichlorobenzene eq."/kg
[E847] disulfothon to fresh water	0.0012 kg 1,4-dichlorobenzene eq."/kg
[E848] diuron to fresh water	0.0012 kg 1,4-dichlorobenzene eq."/kg
[E849] DNOC to fresh water	8.50E-07 kg 1,4-dichlorobenzene eq."/kg
[E850] endosulfan to fresh water	0.0018 kg 1,4-dichlorobenzene eq."/kg
[E851] endrin to fresh water	0.35 kg 1,4-dichlorobenzene eq."/kg
[E852] ethoprophos to fresh water	0.24 kg 1,4-dichlorobenzene eq."/kg
[E853] ethylbenzene to fresh water	1.20E-06 kg 1,4-dichlorobenzene eq."/kg
[E854] ethylene to fresh water	1.10E-12 kg 1,4-dichlorobenzene eq."/kg
[E855] fenitrothion to fresh water	0.0047 kg 1,4-dichlorobenzene eq."/kg
[E856] fenthion to fresh water	0.088 kg 1,4-dichlorobenzene eq."/kg
[E857] fentin acetate to fresh water	0.0061 kg 1,4-dichlorobenzene eq."/kg
[E858] fentin chloride to fresh water	0.092 kg 1,4-dichlorobenzene eq."/kg
[E859] fentin hydroxide to fresh water	0.0021 kg 1,4-dichlorobenzene eq."/kg
[E860] fluoranthrene to fresh water	0.0049 kg 1,4-dichlorobenzene eq."/kg
[E861] folpet to fresh water	0.6 kg 1,4-dichlorobenzene eq."/kg
[E862] Formaldehyde (methanal) to fresh water	0.0016 kg 1,4-dichlorobenzene eq."/kg
[E863] glyphosate to fresh water	2.20E-11 kg 1,4-dichlorobenzene eq."/kg
[E864] heptachlor to fresh water	0.00053 kg 1,4-dichlorobenzene eq."/kg
[E865] heptenophos to fresh water	0.0016 kg 1,4-dichlorobenzene eq."/kg
[E866] hexachloro-1,3-butadiene to fresh water	4 kg 1,4-dichlorobenzene eq."/kg
[E867] hexachlorobenzene to fresh water	0.26 kg 1,4-dichlorobenzene eq."/kg
[E870] indeno[1,2,3-cd]pyrene to fresh water	6.20E-06 kg 1,4-dichlorobenzene eq."/kg
[E871] iprodione to fresh water	4.40E-08 kg 1,4-dichlorobenzene eq."/kg
[E872] isoproturon to fresh water	1.60E-05 kg 1,4-dichlorobenzene eq."/kg
[E873] lead to fresh water	2.90E-22 kg 1,4-dichlorobenzene eq."/kg
[E874] lindane to fresh water	0.16 kg 1,4-dichlorobenzene eq."/kg
[E875] linuron to fresh water	0.011 kg 1,4-dichlorobenzene eq."/kg
[E876] malathion to fresh water	1.10E-05 kg 1,4-dichlorobenzene eq."/kg
[E878] MCPA to fresh water	1.40E-11 kg 1,4-dichlorobenzene eq."/kg
[E879] mecoprop to fresh water	1.10E-08 kg 1,4-dichlorobenzene eq."/kg
[E880] mercury to fresh water	930 kg 1,4-dichlorobenzene eq."/kg
[E881] metamitron to fresh water	8.50E-10 kg 1,4-dichlorobenzene eq."/kg
[E882] metazachlor to fresh water	1.40E-06 kg 1,4-dichlorobenzene eq."/kg
[E883] methabenzthiazuron to fresh water	2.00E-05 kg 1,4-dichlorobenzene eq."/kg
[E884] methomyl to fresh water	0.0022 kg 1,4-dichlorobenzene eq."/kg
[E885] methylbromide to fresh water	0.011 kg 1,4-dichlorobenzene eq."/kg
[E886] methyl-mercury to fresh water	930 kg 1,4-dichlorobenzene eq."/kg
[E887] metobromuron to fresh water	0.00046 kg 1,4-dichlorobenzene eq."/kg
[E888] metolachlor to fresh water	0.00021 kg 1,4-dichlorobenzene eq."/kg
[E889] mevinphos to fresh water	2.30E-05 kg 1,4-dichlorobenzene eq."/kg
[E890] molybdenum to fresh water	2.30E-18 kg 1,4-dichlorobenzene eq."/kg
[E891] m-xylene to fresh water	6.00E-07 kg 1,4-dichlorobenzene eq."/kg
[E892] naphtalene to fresh water	0.00049 kg 1,4-dichlorobenzene eq."/kg
[E893] nickel to fresh water	1.00E-18 kg 1,4-dichlorobenzene eq."/kg
[E899] oxamyl to fresh water	7.10E-06 kg 1,4-dichlorobenzene eq."/kg
[E900] oxydemethon-methyl to fresh water	0.00046 kg 1,4-dichlorobenzene eq."/kg
[E901] o-xylene to fresh water	1.20E-06 kg 1,4-dichlorobenzene eq."/kg
[E902] parathion-ethyl to fresh water	0.0031 kg 1,4-dichlorobenzene eq."/kg
[E903] parathion-methyl to fresh water	0.034 kg 1,4-dichlorobenzene eq."/kg
[E904] pentachlorobenzene to fresh water	0.038 kg 1,4-dichlorobenzene eq."/kg
[E905] pentachloronitrobenzene to fresh water	0.05 kg 1,4-dichlorobenzene eq."/kg
[E906] pentachlorophenol to fresh water	0.00032 kg 1,4-dichlorobenzene eq."/kg
[E907] permethrin to fresh water	0.39 kg 1,4-dichlorobenzene eq."/kg
[E908] phenanthrene to fresh water	6.00E-05 kg 1,4-dichlorobenzene eq."/kg
[E909] phenol to fresh water	2.50E-06 kg 1,4-dichlorobenzene eq."/kg
[E912] phoxim to fresh water	0.015 kg 1,4-dichlorobenzene eq."/kg
[E913] Phtalic anhydride to fresh water	1.20E-10 kg 1,4-dichlorobenzene eq."/kg
[E914] pirimicarb to fresh water	0.00093 kg 1,4-dichlorobenzene eq."/kg
[E916] propachlor to fresh water	0.00081 kg 1,4-dichlorobenzene eq."/kg
[E917] propoxur to fresh water	0.00031 kg 1,4-dichlorobenzene eq."/kg

[E918] propylene oxide to fresh water	0.00065 kg 1,4-dichlorobenzene eq."/kg
[E919] p-xylene to fresh water	4.90E-07 kg 1,4-dichlorobenzene eq."/kg
[E920] pyrazophos to fresh water	0.0017 kg 1,4-dichlorobenzene eq."/kg
[E921] selenium to fresh water	1.60E-17 kg 1,4-dichlorobenzene eq."/kg
[E922] simazine to fresh water	0.001 kg 1,4-dichlorobenzene eq."/kg
[E923] styrene (vinylbenzene) to fresh water	1.30E-07 kg 1,4-dichlorobenzene eq."/kg
[E926] tetrachloroethylene (PER) to fresh water	0.0079 kg 1,4-dichlorobenzene eq."/kg
[E927] Tetrachloromethane (carbon tetrachloride) (HC-10) to fresh water	0.00047 kg 1,4-dichlorobenzene eq."/kg
[E928] thallium to fresh water	3.10E-17 kg 1,4-dichlorobenzene eq."/kg
[E929] Thiram to fresh water	0.093 kg 1,4-dichlorobenzene eq."/kg
[E930] tin to fresh water	7.90E-22 kg 1,4-dichlorobenzene eq."/kg
[E931] tolclophos-methyl to fresh water	0.00032 kg 1,4-dichlorobenzene eq."/kg
[E932] toluene to fresh water	1.40E-05 kg 1,4-dichlorobenzene eq."/kg
[E933] tri-allate to fresh water	0.0027 kg 1,4-dichlorobenzene eq."/kg
[E934] triazophos to fresh water	0.039 kg 1,4-dichlorobenzene eq."/kg
[E935] tributyltinoxide to fresh water	0.11 kg 1,4-dichlorobenzene eq."/kg
[E936] trichlorfon to fresh water	7.00E-05 kg 1,4-dichlorobenzene eq."/kg
[E937] Trichloroethylene (tri) to fresh water	4.60E-06 kg 1,4-dichlorobenzene eq."/kg
[E938] Trichloromethane=chloroform to fresh water	3.90E-05 kg 1,4-dichlorobenzene eq."/kg
[E939] trifluarin to fresh water	0.013 kg 1,4-dichlorobenzene eq."/kg
[E940] vanadium to fresh water	1.00E-17 kg 1,4-dichlorobenzene eq."/kg
[E941] Vinyl Chloride (chloroethene) to fresh water	2.60E-07 kg 1,4-dichlorobenzene eq."/kg
[E942] zinc to fresh water	2.50E-21 kg 1,4-dichlorobenzene eq."/kg
[E943] zineb to fresh water	0.0013 kg 1,4-dichlorobenzene eq."/kg
[E944] 1,1,1-trichloroethane to fresh water	0.00011 kg 1,4-dichlorobenzene eq."/kg
[E945] 1,2,3,4-tetrachlorobenzene to fresh water	0.0037 kg 1,4-dichlorobenzene eq."/kg
[E946] 1,2,3,5-tetrachlorobenzene to fresh water	0.074 kg 1,4-dichlorobenzene eq."/kg
[E947] 1,2,3-trichlorobenzene to fresh water	0.035 kg 1,4-dichlorobenzene eq."/kg
[E948] 1,2,4,5-tetrachlorobenzene to fresh water	0.095 kg 1,4-dichlorobenzene eq."/kg
[E949] 1,2,4-trichlorobenzene to fresh water	0.004 kg 1,4-dichlorobenzene eq."/kg
[E950] 1,2-dichlorobenzene to fresh water	0.00024 kg 1,4-dichlorobenzene eq."/kg
[E951] 1,2-dichloroethane to fresh water	2.00E-05 kg 1,4-dichlorobenzene eq."/kg
[E952] 1,3,5-trichlorobenzene to fresh water	0.00083 kg 1,4-dichlorobenzene eq."/kg
[E953] 1,3-butadiene to fresh water	4.00E-09 kg 1,4-dichlorobenzene eq."/kg
[E954] 1,3-dichlorobenzene to fresh water	0.0002 kg 1,4-dichlorobenzene eq."/kg
[E955] 1,4-dichlorobenzene to fresh water	0.0057 kg 1,4-dichlorobenzene eq."/kg
[E956] 1-chloro-4-nitrobenzene to fresh water	0.096 kg 1,4-dichlorobenzene eq."/kg
[E957] 2,3,4,6-tetrachlorophenol to fresh water	5.20E-06 kg 1,4-dichlorobenzene eq."/kg
[E958] 2,3,7,8-TCDD to fresh water	830 kg 1,4-dichlorobenzene eq."/kg
[E959] 2,4,5-T to fresh water	6.40E-11 kg 1,4-dichlorobenzene eq."/kg
[E960] 2,4,5-trichlorophenol to fresh water	0.00091 kg 1,4-dichlorobenzene eq."/kg
[E961] 2,4,6-trichlorophenol to sea water	1.30E-05 kg 1,4-dichlorobenzene eq."/kg
[E962] 2,4-D to sea water	1.80E-12 kg 1,4-dichlorobenzene eq."/kg
[E963] 2,4-dichlorophenol to sea water	6.20E-06 kg 1,4-dichlorobenzene eq."/kg
[E964] 2-chlorophenol to sea water	2.70E-05 kg 1,4-dichlorobenzene eq."/kg
[E965] 3,4-dichloroaniline to sea water	6.70E-06 kg 1,4-dichlorobenzene eq."/kg
[E966] 3-chloroaniline to sea water	1.70E-08 kg 1,4-dichlorobenzene eq."/kg
[E967] 4-chloroaniline to sea water	8.60E-05 kg 1,4-dichlorobenzene eq."/kg
[E968] acephate to sea water	5.30E-10 kg 1,4-dichlorobenzene eq."/kg
[E969] Acrolein (2-propenal) to sea water	0.16 kg 1,4-dichlorobenzene eq."/kg
[E970] acrylonitrile to sea water	0.00012 kg 1,4-dichlorobenzene eq."/kg
[E971] aldicarb to sea water	0.0048 kg 1,4-dichlorobenzene eq."/kg
[E972] aldrin to sea water	0.0067 kg 1,4-dichlorobenzene eq."/kg
[E974] anilazine to sea water	7.00E-10 kg 1,4-dichlorobenzene eq."/kg
[E975] anthracene to sea water	0.004 kg 1,4-dichlorobenzene eq."/kg
[E976] antimony to sea water	3.00E-20 kg 1,4-dichlorobenzene eq."/kg
[E977] arsenic to sea water	3.00E-17 kg 1,4-dichlorobenzene eq."/kg
[E978] atrazine to sea water	5.00E-05 kg 1,4-dichlorobenzene eq."/kg
[E979] azinphos-ethyl to sea water	0.00034 kg 1,4-dichlorobenzene eq."/kg
[E980] azinphos-methyl to sea water	4.90E-08 kg 1,4-dichlorobenzene eq."/kg
[E981] barium to sea water	6.60E-19 kg 1,4-dichlorobenzene eq."/kg
[E982] benomyl to sea water	1.40E-09 kg 1,4-dichlorobenzene eq."/kg
[E983] bentazone to sea water	3.30E-10 kg 1,4-dichlorobenzene eq."/kg
[E984] benzene to sea water	1.70E-06 kg 1,4-dichlorobenzene eq."/kg
[E985] benzo[a]anthracene to sea water	0.0062 kg 1,4-dichlorobenzene eq."/kg
[E986] benzo[a]pyrene to sea water	0.0008 kg 1,4-dichlorobenzene eq."/kg
[E987] benzo[ghi]perylene to sea water	0.00025 kg 1,4-dichlorobenzene eq."/kg

[E988] benzo[k]fluoranthrene to sea water	0.088 kg 1,4-dichlorobenzene eq."/kg
[E989] benzylchloride to sea water	2.50E-05 kg 1,4-dichlorobenzene eq."/kg
[E990] beryllium to sea water	3.90E-16 kg 1,4-dichlorobenzene eq."/kg
[E991] bifenthrin to sea water	0.00059 kg 1,4-dichlorobenzene eq."/kg
[E994] Butylbenzylphtalate to sea water	1.00E-07 kg 1,4-dichlorobenzene eq."/kg
[E995] cadmium to sea water	1.10E-19 kg 1,4-dichlorobenzene eq."/kg
[E996] captafol to sea water	1.60E-08 kg 1,4-dichlorobenzene eq."/kg
[E997] captan to sea water	9.40E-10 kg 1,4-dichlorobenzene eq."/kg
[E998] carbaryl to sea water	1.10E-09 kg 1,4-dichlorobenzene eq."/kg
[E999] carbendazim to sea water	1.60E-10 kg 1,4-dichlorobenzene eq."/kg
[E1000] carbofuran to sea water	6.10E-07 kg 1,4-dichlorobenzene eq."/kg
[E1001] carbon disulfide to sea water	0.001 kg 1,4-dichlorobenzene eq."/kg
[E1002] Carcinogenic PAHs to sea water	0.00081 kg 1,4-dichlorobenzene eq."/kg
[E1004] chlordane to sea water	0.28 kg 1,4-dichlorobenzene eq."/kg
[E1005] chlorfenvinphos to sea water	8.60E-07 kg 1,4-dichlorobenzene eq."/kg
[E1006] chloridazon to sea water	6.40E-05 kg 1,4-dichlorobenzene eq."/kg
[E1008] chlorobenzene to sea water	0.00041 kg 1,4-dichlorobenzene eq."/kg
[E1009] chlorothalonil to sea water	0.00038 kg 1,4-dichlorobenzene eq."/kg
[E1010] chlorpropham to sea water	4.50E-07 kg 1,4-dichlorobenzene eq."/kg
[E1011] chlorpyriphos to sea water	5.70E-05 kg 1,4-dichlorobenzene eq."/kg
[E1012] chromium III to sea water	2.00E-18 kg 1,4-dichlorobenzene eq."/kg
[E1013] chromium VI to sea water	2.00E-18 kg 1,4-dichlorobenzene eq."/kg
[E1014] chrysene to sea water	0.0016 kg 1,4-dichlorobenzene eq."/kg
[E1015] cobalt to sea water	4.90E-18 kg 1,4-dichlorobenzene eq."/kg
[E1016] copper to sea water	2.50E-20 kg 1,4-dichlorobenzene eq."/kg
[E1017] coumaphos to sea water	0.5 kg 1,4-dichlorobenzene eq."/kg
[E1018] cyanazine to sea water	4.00E-08 kg 1,4-dichlorobenzene eq."/kg
[E1019] cypermethrin to sea water	0.25 kg 1,4-dichlorobenzene eq."/kg
[E1020] cyromazine to sea water	7.30E-08 kg 1,4-dichlorobenzene eq."/kg
[E1021] DDT to sea water	0.96 kg 1,4-dichlorobenzene eq."/kg
[E1022] deltamethrin to sea water	0.0014 kg 1,4-dichlorobenzene eq."/kg
[E1023] demeton to sea water	0.00023 kg 1,4-dichlorobenzene eq."/kg
[E1024] desmetryn to sea water	7.50E-07 kg 1,4-dichlorobenzene eq."/kg
[E1025] Di(2-ethylhexyl)phtalate to sea water	9.60E-07 kg 1,4-dichlorobenzene eq."/kg
[E1026] diazinon to sea water	8.20E-05 kg 1,4-dichlorobenzene eq."/kg
[E1027] Dibutylphtalate to sea water	2.10E-07 kg 1,4-dichlorobenzene eq."/kg
[E1028] Dichloromethane (Methylene Chloride) to sea water	6.50E-07 kg 1,4-dichlorobenzene eq."/kg
[E1029] dichlorprop to sea water	1.10E-14 kg 1,4-dichlorobenzene eq."/kg
[E1030] dichlorvos to sea water	0.00022 kg 1,4-dichlorobenzene eq."/kg
[E1031] dieldrin to sea water	0.1 kg 1,4-dichlorobenzene eq."/kg
[E1032] Diethylphtalate to sea water	0.0001 kg 1,4-dichlorobenzene eq."/kg
[E1033] Dihexylphtalate to sea water	1.70E-05 kg 1,4-dichlorobenzene eq."/kg
[E1034] Diisodecylphtalate to sea water	6.40E-05 kg 1,4-dichlorobenzene eq."/kg
[E1035] Diisooctylphtalate to sea water	3.50E-06 kg 1,4-dichlorobenzene eq."/kg
[E1036] dimethoate to sea water	1.80E-07 kg 1,4-dichlorobenzene eq."/kg
[E1037] Dimethylphtalate to sea water	4.70E-06 kg 1,4-dichlorobenzene eq."/kg
[E1038] dinoseb to sea water	0.001 kg 1,4-dichlorobenzene eq."/kg
[E1039] dinoterb to sea water	5.10E-05 kg 1,4-dichlorobenzene eq."/kg
[E1040] Dioctylphtalate to sea water	8.80E-08 kg 1,4-dichlorobenzene eq."/kg
[E1041] disulfothon to sea water	2.10E-05 kg 1,4-dichlorobenzene eq."/kg
[E1042] diuron to sea water	2.10E-05 kg 1,4-dichlorobenzene eq."/kg
[E1043] DNOC to sea water	1.50E-09 kg 1,4-dichlorobenzene eq."/kg
[E1044] endosulfan to sea water	1.60E-05 kg 1,4-dichlorobenzene eq."/kg
[E1045] endrin to sea water	0.38 kg 1,4-dichlorobenzene eq."/kg
[E1046] ethoprophos to sea water	0.0072 kg 1,4-dichlorobenzene eq."/kg
[E1047] ethylbenzene to sea water	1.00E-07 kg 1,4-dichlorobenzene eq."/kg
[E1048] ethylene to sea water	9.90E-14 kg 1,4-dichlorobenzene eq."/kg
[E1049] fenitrothion to sea water	8.40E-05 kg 1,4-dichlorobenzene eq."/kg
[E1050] fenthion to sea water	0.0017 kg 1,4-dichlorobenzene eq."/kg
[E1051] fentin acetate to sea water	0.00011 kg 1,4-dichlorobenzene eq."/kg
[E1052] fentin chloride to sea water	0.0025 kg 1,4-dichlorobenzene eq."/kg
[E1053] fentin hydroxide to sea water	3.80E-05 kg 1,4-dichlorobenzene eq."/kg
[E1054] fluoranthrene to sea water	0.00096 kg 1,4-dichlorobenzene eq."/kg
[E1055] folpet to sea water	0.074 kg 1,4-dichlorobenzene eq."/kg
[E1056] Formaldehyde (methanal) to sea water	2.40E-05 kg 1,4-dichlorobenzene eq."/kg
[E1057] glyphosate to sea water	4.40E-14 kg 1,4-dichlorobenzene eq."/kg
[E1058] heptachlor to sea water	2.40E-05 kg 1,4-dichlorobenzene eq."/kg

[E1059] heptenophos to sea water	2.40E-05 kg 1,4-dichlorobenzene eq."/kg
[E1060] hexachloro-1,3-butadiene to sea water	2.1 kg 1,4-dichlorobenzene eq."/kg
[E1061] hexachlorobenzene to sea water	0.24 kg 1,4-dichlorobenzene eq."/kg
[E1064] indeno[1,2,3-cd]pyrene to sea water	4.10E-06 kg 1,4-dichlorobenzene eq."/kg
[E1065] iprodione to sea water	1.50E-10 kg 1,4-dichlorobenzene eq."/kg
[E1066] isoproturon to sea water	3.80E-07 kg 1,4-dichlorobenzene eq."/kg
[E1067] lead to sea water	4.60E-21 kg 1,4-dichlorobenzene eq."/kg
[E1068] lindane to sea water	0.0039 kg 1,4-dichlorobenzene eq."/kg
[E1069] linuron to sea water	0.00031 kg 1,4-dichlorobenzene eq."/kg
[E1070] malathion to sea water	2.00E-07 kg 1,4-dichlorobenzene eq."/kg
[E1072] MCPA to sea water	2.20E-14 kg 1,4-dichlorobenzene eq."/kg
[E1073] mecoprop to sea water	1.80E-11 kg 1,4-dichlorobenzene eq."/kg
[E1074] mercury to sea water	7600 kg 1,4-dichlorobenzene eq."/kg
[E1075] metamitron to sea water	1.40E-11 kg 1,4-dichlorobenzene eq."/kg
[E1076] metazachlor to sea water	3.00E-08 kg 1,4-dichlorobenzene eq."/kg
[E1077] methabenzthiazuron to sea water	6.00E-07 kg 1,4-dichlorobenzene eq."/kg
[E1078] methomyl to sea water	7.50E-05 kg 1,4-dichlorobenzene eq."/kg
[E1079] methylbromide to sea water	0.00091 kg 1,4-dichlorobenzene eq."/kg
[E1080] methyl-mercury to sea water	7600 kg 1,4-dichlorobenzene eq."/kg
[E1081] metobromuron to sea water	3.80E-05 kg 1,4-dichlorobenzene eq."/kg
[E1082] metolachlor to sea water	5.40E-06 kg 1,4-dichlorobenzene eq."/kg
[E1083] mevinphos to sea water	3.20E-07 kg 1,4-dichlorobenzene eq."/kg
[E1084] molybdenum to sea water	2.90E-18 kg 1,4-dichlorobenzene eq."/kg
[E1085] m-xylene to sea water	1.10E-07 kg 1,4-dichlorobenzene eq."/kg
[E1086] naphtalene to sea water	1.90E-05 kg 1,4-dichlorobenzene eq."/kg
[E1087] nickel to sea water	2.60E-18 kg 1,4-dichlorobenzene eq."/kg
[E1093] oxamyl to sea water	2.30E-08 kg 1,4-dichlorobenzene eq."/kg
[E1094] oxydemethon-methyl to sea water	5.20E-06 kg 1,4-dichlorobenzene eq."/kg
[E1095] o-xylene to sea water	2.10E-07 kg 1,4-dichlorobenzene eq."/kg
[E1096] parathion-ethyl to sea water	8.20E-05 kg 1,4-dichlorobenzene eq."/kg
[E1097] parathion-methyl to sea water	0.00071 kg 1,4-dichlorobenzene eq."/kg
[E1098] pentachlorobenzene to sea water	0.026 kg 1,4-dichlorobenzene eq."/kg
[E1099] pentachloronitrobenzene to sea water	0.029 kg 1,4-dichlorobenzene eq."/kg
[E1100] pentachlorophenol to sea water	2.60E-06 kg 1,4-dichlorobenzene eq."/kg
[E1101] permethrin to sea water	0.017 kg 1,4-dichlorobenzene eq."/kg
[E1102] phenanthrene to sea water	6.30E-06 kg 1,4-dichlorobenzene eq."/kg
[E1103] phenol to sea water	3.80E-08 kg 1,4-dichlorobenzene eq."/kg
[E1106] phoxim to sea water	0.0013 kg 1,4-dichlorobenzene eq."/kg
[E1107] Phtalic anhydride to sea water	2.80E-12 kg 1,4-dichlorobenzene eq."/kg
[E1108] pirimicarb to sea water	1.70E-05 kg 1,4-dichlorobenzene eq."/kg
[E1110] propachlor to sea water	1.30E-05 kg 1,4-dichlorobenzene eq."/kg
[E1111] propoxur to sea water	3.20E-06 kg 1,4-dichlorobenzene eq."/kg
[E1112] propylene oxide to sea water	1.80E-05 kg 1,4-dichlorobenzene eq."/kg
[E1113] p-xylene to sea water	8.90E-08 kg 1,4-dichlorobenzene eq."/kg
[E1114] pyrazophos to sea water	2.90E-05 kg 1,4-dichlorobenzene eq."/kg
[E1115] selenium to sea water	1.80E-17 kg 1,4-dichlorobenzene eq."/kg
[E1116] simazine to sea water	1.90E-05 kg 1,4-dichlorobenzene eq."/kg
[E1117] styrene (vinylbenzene) to sea water	2.70E-08 kg 1,4-dichlorobenzene eq."/kg
[E1120] tetrachloroethylene (PER) to sea water	0.004 kg 1,4-dichlorobenzene eq."/kg
[E1121] Tetrachloromethane (carbon tetrachloride) (HC-10) to sea water	0.00036 kg 1,4-dichlorobenzene eq."/kg
[E1122] thallium to sea water	4.20E-17 kg 1,4-dichlorobenzene eq."/kg
[E1123] Thiram to sea water	0.00031 kg 1,4-dichlorobenzene eq."/kg
[E1124] tin to sea water	7.20E-21 kg 1,4-dichlorobenzene eq."/kg
[E1125] tolclophos-methyl to sea water	6.70E-05 kg 1,4-dichlorobenzene eq."/kg
[E1126] toluene to sea water	1.90E-06 kg 1,4-dichlorobenzene eq."/kg
[E1127] tri-allate to sea water	0.00013 kg 1,4-dichlorobenzene eq."/kg
[E1128] triazophos to sea water	0.00084 kg 1,4-dichlorobenzene eq."/kg
[E1129] tributyltinoxide to sea water	0.0069 kg 1,4-dichlorobenzene eq."/kg
[E1130] trichlorfon to sea water	4.80E-07 kg 1,4-dichlorobenzene eq."/kg
[E1131] Trichloroethylene (tri) to sea water	1.90E-06 kg 1,4-dichlorobenzene eq."/kg
[E1132] Trichloromethane=chloroform to sea water	1.90E-05 kg 1,4-dichlorobenzene eq."/kg
[E1133] trifluarin to sea water	0.003 kg 1,4-dichlorobenzene eq."/kg
[E1134] vanadium to sea water	2.20E-17 kg 1,4-dichlorobenzene eq."/kg
[E1135] Vinyl Chloride (chloroethene) to sea water	1.30E-07 kg 1,4-dichlorobenzene eq."/kg
[E1136] zinc to sea water	1.90E-20 kg 1,4-dichlorobenzene eq."/kg
[E1137] zineb to sea water	2.80E-05 kg 1,4-dichlorobenzene eq."/kg
[E1138] 1,1,1-trichloroethane to sea water	0.0015 kg 1,4-dichlorobenzene eq."/kg

[E1139] 1,2,3,4-tetrachlorobenzene to sea water	0.83 kg 1,4-dichlorobenzene eq."/kg
[E1140] 1,2,3,5-tetrachlorobenzene to sea water	15 kg 1,4-dichlorobenzene eq."/kg
[E1141] 1,2,3-trichlorobenzene to sea water	9.3 kg 1,4-dichlorobenzene eq."/kg
[E1142] 1,2,4,5-tetrachlorobenzene to sea water	19 kg 1,4-dichlorobenzene eq."/kg
[E1143] 1,2,4-trichlorobenzene to sea water	1.2 kg 1,4-dichlorobenzene eq."/kg
[E1144] 1,2-dichlorobenzene to sea water	0.054 kg 1,4-dichlorobenzene eq."/kg
[E1145] 1,2-dichloroethane to sea water	0.0017 kg 1,4-dichlorobenzene eq."/kg
[E1146] 1,3,5-trichlorobenzene to sea water	0.25 kg 1,4-dichlorobenzene eq."/kg
[E1147] 1,3-butadiene to sea water	0.00031 kg 1,4-dichlorobenzene eq."/kg
[E1148] 1,3-dichlorobenzene to sea water	0.062 kg 1,4-dichlorobenzene eq."/kg
[E1149] 1,4-dichlorobenzene to sea water	1 kg 1,4-dichlorobenzene eq."/kg
[E1150] 1-chloro-4-nitrobenzene to sea water	17 kg 1,4-dichlorobenzene eq."/kg
[E1151] 2,3,4,6-tetrachlorophenol to sea water	1 kg 1,4-dichlorobenzene eq."/kg
[E1152] 2,3,7,8-TCDD to sea water	27000 kg 1,4-dichlorobenzene eq."/kg
[E1153] 2,4,5-T to sea water	0.74 kg 1,4-dichlorobenzene eq."/kg
[E1154] 2,4,5-trichlorophenol to sea water	4.4 kg 1,4-dichlorobenzene eq."/kg
[E1155] 2,4,6-trichlorophenol to agricultural soil	0.7 kg 1,4-dichlorobenzene eq."/kg
[E1156] 2,4-D to agricultural soil	1.6 kg 1,4-dichlorobenzene eq."/kg
[E1157] 2,4-dichlorophenol to agricultural soil	0.59 kg 1,4-dichlorobenzene eq."/kg
[E1158] 2-chlorophenol to agricultural soil	0.38 kg 1,4-dichlorobenzene eq."/kg
[E1159] 3,4-dichloroaniline to agricultural soil	26 kg 1,4-dichlorobenzene eq."/kg
[E1160] 3-chloroaniline to agricultural soil	1.4 kg 1,4-dichlorobenzene eq."/kg
[E1161] 4-chloroaniline to agricultural soil	16 kg 1,4-dichlorobenzene eq."/kg
[E1162] acephate to agricultural soil	1.7 kg 1,4-dichlorobenzene eq."/kg
[E1163] Acrolein (2-propenal) to agricultural soil	7000 kg 1,4-dichlorobenzene eq."/kg
[E1164] acrylonitrile to agricultural soil	2.5 kg 1,4-dichlorobenzene eq."/kg
[E1165] aldicarb to agricultural soil	4200 kg 1,4-dichlorobenzene eq."/kg
[E1166] aldrin to agricultural soil	20 kg 1,4-dichlorobenzene eq."/kg
[E1168] anilazine to agricultural soil	0.23 kg 1,4-dichlorobenzene eq."/kg
[E1169] anthracene to agricultural soil	8.9 kg 1,4-dichlorobenzene eq."/kg
[E1170] antimony to agricultural soil	1.3 kg 1,4-dichlorobenzene eq."/kg
[E1171] arsenic to agricultural soil	3300 kg 1,4-dichlorobenzene eq."/kg
[E1172] atrazine to agricultural soil	6.6 kg 1,4-dichlorobenzene eq."/kg
[E1173] azinphos-ethyl to agricultural soil	220 kg 1,4-dichlorobenzene eq."/kg
[E1174] azinphos-methyl to agricultural soil	0.97 kg 1,4-dichlorobenzene eq."/kg
[E1175] barium to agricultural soil	10 kg 1,4-dichlorobenzene eq."/kg
[E1176] benomyl to agricultural soil	3.5 kg 1,4-dichlorobenzene eq."/kg
[E1177] bentazone to agricultural soil	0.59 kg 1,4-dichlorobenzene eq."/kg
[E1178] benzene to agricultural soil	0.0034 kg 1,4-dichlorobenzene eq."/kg
[E1179] benzo[a]anthracene to agricultural soil	31 kg 1,4-dichlorobenzene eq."/kg
[E1180] benzo[a]pyrene to agricultural soil	23 kg 1,4-dichlorobenzene eq."/kg
[E1181] benzo[ghi]perylene to agricultural soil	8.3 kg 1,4-dichlorobenzene eq."/kg
[E1182] benzo[k]fluoranthrene to agricultural soil	390 kg 1,4-dichlorobenzene eq."/kg
[E1183] benzylchloride to agricultural soil	0.8 kg 1,4-dichlorobenzene eq."/kg
[E1184] beryllium to agricultural soil	3600 kg 1,4-dichlorobenzene eq."/kg
[E1185] bifenthrin to agricultural soil	83 kg 1,4-dichlorobenzene eq."/kg
[E1186] Butylbenzylphtalate to agricultural soil	0.01 kg 1,4-dichlorobenzene eq."/kg
[E1187] cadmium to agricultural soil	170 kg 1,4-dichlorobenzene eq."/kg
[E1188] captafol to agricultural soil	28 kg 1,4-dichlorobenzene eq."/kg
[E1189] captan to agricultural soil	0.041 kg 1,4-dichlorobenzene eq."/kg
[E1190] carbaryl to agricultural soil	0.11 kg 1,4-dichlorobenzene eq."/kg
[E1191] carbendazim to agricultural soil	49 kg 1,4-dichlorobenzene eq."/kg
[E1192] carbofuran to agricultural soil	7.5 kg 1,4-dichlorobenzene eq."/kg
[E1193] carbon disulfide to agricultural soil	1.6 kg 1,4-dichlorobenzene eq."/kg
[E1194] Carcinogenic PAHs to agricultural soil	6.3 kg 1,4-dichlorobenzene eq."/kg
[E1195] chlordane to agricultural soil	74 kg 1,4-dichlorobenzene eq."/kg
[E1196] chlorfenvinphos to agricultural soil	1.3 kg 1,4-dichlorobenzene eq."/kg
[E1197] chloridazon to agricultural soil	0.9 kg 1,4-dichlorobenzene eq."/kg
[E1198] chlorobenzene to agricultural soil	0.12 kg 1,4-dichlorobenzene eq."/kg
[E1199] chlorothalonil to agricultural soil	0.68 kg 1,4-dichlorobenzene eq."/kg
[E1200] chlorpropham to agricultural soil	0.13 kg 1,4-dichlorobenzene eq."/kg
[E1201] chlorpyriphos to agricultural soil	17 kg 1,4-dichlorobenzene eq."/kg
[E1202] chromium III to agricultural soil	6300 kg 1,4-dichlorobenzene eq."/kg
[E1203] chromium VI to agricultural soil	6300 kg 1,4-dichlorobenzene eq."/kg
[E1204] chrysene to agricultural soil	4.6 kg 1,4-dichlorobenzene eq."/kg
[E1205] cobalt to agricultural soil	220 kg 1,4-dichlorobenzene eq."/kg
[E1206] copper to agricultural soil	14 kg 1,4-dichlorobenzene eq."/kg

[E1207] coumaphos to agricultural soil	16000 kg 1,4-dichlorobenzene eq."/kg
[E1208] cyanazine to agricultural soil	69 kg 1,4-dichlorobenzene eq."/kg
[E1209] cypermethrin to agricultural soil	90000 kg 1,4-dichlorobenzene eq."/kg
[E1210] cyromazine to agricultural soil	630 kg 1,4-dichlorobenzene eq."/kg
[E1211] DDT to agricultural soil	60 kg 1,4-dichlorobenzene eq."/kg
[E1212] deltamethrin to agricultural soil	8.5 kg 1,4-dichlorobenzene eq."/kg
[E1213] demeton to agricultural soil	60 kg 1,4-dichlorobenzene eq."/kg
[E1214] desmetryn to agricultural soil	2.9 kg 1,4-dichlorobenzene eq."/kg
[E1215] Di(2-ethylhexyl)phtalate to agricultural soil	0.0014 kg 1,4-dichlorobenzene eq."/kg
[E1216] diazinon to agricultural soil	12 kg 1,4-dichlorobenzene eq."/kg
[E1217] Dibutylphtalate to agricultural soil	0.023 kg 1,4-dichlorobenzene eq."/kg
[E1218] Dichloromethane (Methylene Chloride) to agricultural soil	0.00025 kg 1,4-dichlorobenzene eq."/kg
[E1219] dichlorprop to agricultural soil	0.0014 kg 1,4-dichlorobenzene eq."/kg
[E1220] dichlorvos to agricultural soil	200 kg 1,4-dichlorobenzene eq."/kg
[E1221] dieldrin to agricultural soil	110 kg 1,4-dichlorobenzene eq."/kg
[E1222] Diethylphtalate to agricultural soil	2.1 kg 1,4-dichlorobenzene eq."/kg
[E1223] Dihexylphtalate to agricultural soil	0.0073 kg 1,4-dichlorobenzene eq."/kg
[E1224] Diisodecylphtalate to agricultural soil	0.004 kg 1,4-dichlorobenzene eq."/kg
[E1225] Diisooctylphtalate to agricultural soil	0.00055 kg 1,4-dichlorobenzene eq."/kg
[E1226] dimethoate to agricultural soil	0.8 kg 1,4-dichlorobenzene eq."/kg
[E1227] Dimethylphtalate to agricultural soil	1.4 kg 1,4-dichlorobenzene eq."/kg
[E1228] dinoseb to agricultural soil	590 kg 1,4-dichlorobenzene eq."/kg
[E1229] dinoterb to agricultural soil	9.9 kg 1,4-dichlorobenzene eq."/kg
[E1230] Dioctylphtalate to agricultural soil	4.80E-05 kg 1,4-dichlorobenzene eq."/kg
[E1231] disulfothon to agricultural soil	11 kg 1,4-dichlorobenzene eq."/kg
[E1232] diuron to agricultural soil	11 kg 1,4-dichlorobenzene eq."/kg
[E1233] DNOC to agricultural soil	0.52 kg 1,4-dichlorobenzene eq."/kg
[E1234] endosulfan to agricultural soil	2.7 kg 1,4-dichlorobenzene eq."/kg
[E1235] endrin to agricultural soil	4200 kg 1,4-dichlorobenzene eq."/kg
[E1236] ethoprophos to agricultural soil	270 kg 1,4-dichlorobenzene eq."/kg
[E1237] ethylbenzene to agricultural soil	0.0019 kg 1,4-dichlorobenzene eq."/kg
[E1238] ethylene to agricultural soil	2.30E-09 kg 1,4-dichlorobenzene eq."/kg
[E1239] fenitrothion to agricultural soil	83 kg 1,4-dichlorobenzene eq."/kg
[E1240] fenthion to agricultural soil	290 kg 1,4-dichlorobenzene eq."/kg
[E1241] fentin acetate to agricultural soil	12 kg 1,4-dichlorobenzene eq."/kg
[E1242] fentin chloride to agricultural soil	12 kg 1,4-dichlorobenzene eq."/kg
[E1243] fentin hydroxide to agricultural soil	12 kg 1,4-dichlorobenzene eq."/kg
[E1244] fluoranthrene to agricultural soil	2.3 kg 1,4-dichlorobenzene eq."/kg
[E1245] folpet to agricultural soil	110 kg 1,4-dichlorobenzene eq."/kg
[E1246] Formaldehyde (methanal) to agricultural soil	5.8 kg 1,4-dichlorobenzene eq."/kg
[E1247] glyphosate to agricultural soil	0.096 kg 1,4-dichlorobenzene eq."/kg
[E1248] heptachlor to agricultural soil	5.5 kg 1,4-dichlorobenzene eq."/kg
[E1249] heptenophos to agricultural soil	16 kg 1,4-dichlorobenzene eq."/kg
[E1250] hexachloro-1,3-butadiene to agricultural soil	53 kg 1,4-dichlorobenzene eq."/kg
[E1251] hexachlorobenzene to agricultural soil	3.5 kg 1,4-dichlorobenzene eq."/kg
[E1254] indeno[1,2,3-cd]pyrene to agricultural soil	13 kg 1,4-dichlorobenzene eq."/kg
[E1255] iprodione to agricultural soil	0.14 kg 1,4-dichlorobenzene eq."/kg
[E1256] isoproturon to agricultural soil	6.4 kg 1,4-dichlorobenzene eq."/kg
[E1257] lead to agricultural soil	33 kg 1,4-dichlorobenzene eq."/kg
[E1258] lindane to agricultural soil	23 kg 1,4-dichlorobenzene eq."/kg
[E1259] linuron to agricultural soil	21 kg 1,4-dichlorobenzene eq."/kg
[E1260] malathion to agricultural soil	0.076 kg 1,4-dichlorobenzene eq."/kg
[E1261] MCPA to agricultural soil	0.094 kg 1,4-dichlorobenzene eq."/kg
[E1262] mecoprop to agricultural soil	4.7 kg 1,4-dichlorobenzene eq."/kg
[E1263] mercury to agricultural soil	56000 kg 1,4-dichlorobenzene eq."/kg
[E1264] metamitron to agricultural soil	0.042 kg 1,4-dichlorobenzene eq."/kg
[E1265] metazachlor to agricultural soil	0.17 kg 1,4-dichlorobenzene eq."/kg
[E1266] methabenzthiazuron to agricultural soil	1.1 kg 1,4-dichlorobenzene eq."/kg
[E1267] methomyl to agricultural soil	300 kg 1,4-dichlorobenzene eq."/kg
[E1268] methylbromide to agricultural soil	0.36 kg 1,4-dichlorobenzene eq."/kg
[E1269] methyl-mercury to agricultural soil	56000 kg 1,4-dichlorobenzene eq."/kg
[E1270] metobromuron to agricultural soil	2.2 kg 1,4-dichlorobenzene eq."/kg
[E1271] metolachlor to agricultural soil	0.54 kg 1,4-dichlorobenzene eq."/kg
[E1272] mevinphos to agricultural soil	87 kg 1,4-dichlorobenzene eq."/kg
[E1273] molybdenum to agricultural soil	36 kg 1,4-dichlorobenzene eq."/kg
[E1274] m-xylene to agricultural soil	0.003 kg 1,4-dichlorobenzene eq."/kg
[E1275] naphtalene to agricultural soil	3.1 kg 1,4-dichlorobenzene eq."/kg

[E1276] nickel to agricultural soil	240 kg 1,4-dichlorobenzene eq."/kg
[E1278] oxamyl to agricultural soil	5.9 kg 1,4-dichlorobenzene eq."/kg
[E1279] oxydemethon-methyl to agricultural soil	92 kg 1,4-dichlorobenzene eq."/kg
[E1280] o-xylene to agricultural soil	0.0034 kg 1,4-dichlorobenzene eq."/kg
[E1281] parathion-ethyl to agricultural soil	17 kg 1,4-dichlorobenzene eq."/kg
[E1282] parathion-methyl to agricultural soil	81 kg 1,4-dichlorobenzene eq."/kg
[E1283] pentachlorobenzene to agricultural soil	2.1 kg 1,4-dichlorobenzene eq."/kg
[E1284] pentachloronitrobenzene to agricultural soil	2.7 kg 1,4-dichlorobenzene eq."/kg
[E1285] pentachlorophenol to agricultural soil	4.8 kg 1,4-dichlorobenzene eq."/kg
[E1286] permethrin to agricultural soil	2250 kg 1,4-dichlorobenzene eq."/kg
[E1287] phenanthrene to agricultural soil	0.037 kg 1,4-dichlorobenzene eq."/kg
[E1288] phenol to agricultural soil	0.045 kg 1,4-dichlorobenzene eq."/kg
[E1289] phoxim to agricultural soil	4.7 kg 1,4-dichlorobenzene eq."/kg
[E1290] Phtalic anhydride to agricultural soil	0.0026 kg 1,4-dichlorobenzene eq."/kg
[E1291] pirimicarb to agricultural soil	120 kg 1,4-dichlorobenzene eq."/kg
[E1293] propachlor to agricultural soil	2.5 kg 1,4-dichlorobenzene eq."/kg
[E1294] propoxur to agricultural soil	1800 kg 1,4-dichlorobenzene eq."/kg
[E1295] propylene oxide to agricultural soil	0.14 kg 1,4-dichlorobenzene eq."/kg
[E1296] p-xylene to agricultural soil	0.0015 kg 1,4-dichlorobenzene eq."/kg
[E1297] pyrazophos to agricultural soil	30 kg 1,4-dichlorobenzene eq."/kg
[E1298] selenium to agricultural soil	110 kg 1,4-dichlorobenzene eq."/kg
[E1299] simazine to agricultural soil	29 kg 1,4-dichlorobenzene eq."/kg
[E1300] styrene (vinylbenzene) to agricultural soil	0.0014 kg 1,4-dichlorobenzene eq."/kg
[E1302] tetrachloroethylene (PER) to agricultural soil	0.3 kg 1,4-dichlorobenzene eq."/kg
[E1303] Tetrachloromethane (carbon tetrachloride) (HC-10) to agricultural soil	0.0021 kg 1,4-dichlorobenzene eq."/kg
[E1304] thallium to agricultural soil	700 kg 1,4-dichlorobenzene eq."/kg
[E1305] Thiram to agricultural soil	51 kg 1,4-dichlorobenzene eq."/kg
[E1306] tin to agricultural soil	30 kg 1,4-dichlorobenzene eq."/kg
[E1307] tolclophos-methyl to agricultural soil	1.8 kg 1,4-dichlorobenzene eq."/kg
[E1308] toluene to agricultural soil	0.019 kg 1,4-dichlorobenzene eq."/kg
[E1309] tri-allate to agricultural soil	1.3 kg 1,4-dichlorobenzene eq."/kg
[E1310] triazophos to agricultural soil	250 kg 1,4-dichlorobenzene eq."/kg
[E1311] tributyltinoxide to agricultural soil	37 kg 1,4-dichlorobenzene eq."/kg
[E1312] trichlorfon to agricultural soil	1900 kg 1,4-dichlorobenzene eq."/kg
[E1313] Trichloroethylene (tri) to agricultural soil	0.0021 kg 1,4-dichlorobenzene eq."/kg
[E1314] Trichloromethane=chloroform to agricultural soil	0.0016 kg 1,4-dichlorobenzene eq."/kg
[E1315] trifluarin to agricultural soil	35 kg 1,4-dichlorobenzene eq."/kg
[E1316] vanadium to agricultural soil	1400 kg 1,4-dichlorobenzene eq."/kg
[E1317] Vinyl Chloride (chloroethene) to agricultural soil	0.00031 kg 1,4-dichlorobenzene eq."/kg
[E1318] zinc to agricultural soil	12 kg 1,4-dichlorobenzene eq."/kg
[E1319] zineb to agricultural soil	16 kg 1,4-dichlorobenzene eq."/kg
[E1320] 1,1,1-trichloroethane to agricultural soil	0.0015 kg 1,4-dichlorobenzene eq."/kg
[E1321] 1,2,3,4-tetrachlorobenzene to agricultural soil	0.77 kg 1,4-dichlorobenzene eq."/kg
[E1322] 1,2,3,5-tetrachlorobenzene to agricultural soil	12 kg 1,4-dichlorobenzene eq."/kg
[E1323] 1,2,3-trichlorobenzene to agricultural soil	8 kg 1,4-dichlorobenzene eq."/kg
[E1324] 1,2,4,5-tetrachlorobenzene to agricultural soil	17 kg 1,4-dichlorobenzene eq."/kg
[E1325] 1,2,4-trichlorobenzene to agricultural soil	0.99 kg 1,4-dichlorobenzene eq."/kg
[E1326] 1,2-dichlorobenzene to agricultural soil	0.054 kg 1,4-dichlorobenzene eq."/kg
[E1327] 1,2-dichloroethane to agricultural soil	0.0017 kg 1,4-dichlorobenzene eq."/kg
[E1328] 1,3,5-trichlorobenzene to agricultural soil	0.22 kg 1,4-dichlorobenzene eq."/kg
[E1329] 1,3-butadiene to agricultural soil	0.00031 kg 1,4-dichlorobenzene eq."/kg
[E1330] 1,3-dichlorobenzene to agricultural soil	0.062 kg 1,4-dichlorobenzene eq."/kg
[E1331] 1,4-dichlorobenzene to agricultural soil	1 kg 1,4-dichlorobenzene eq."/kg
[E1332] 1-chloro-4-nitrobenzene to agricultural soil	17 kg 1,4-dichlorobenzene eq."/kg
[E1333] 2,3,4,6-tetrachlorophenol to agricultural soil	0.97 kg 1,4-dichlorobenzene eq."/kg
[E1334] 2,3,7,8-TCDD to agricultural soil	27000 kg 1,4-dichlorobenzene eq."/kg
[E1335] 2,4,5-T to agricultural soil	0.64 kg 1,4-dichlorobenzene eq."/kg
[E1336] 2,4,5-trichlorophenol to agricultural soil	3.9 kg 1,4-dichlorobenzene eq."/kg
[E1337] 2,4,6-trichlorophenol to industrial soil	0.68 kg 1,4-dichlorobenzene eq."/kg
[E1338] 2,4-D to industrial soil	1.1 kg 1,4-dichlorobenzene eq."/kg
[E1339] 2,4-dichlorophenol to industrial soil	0.54 kg 1,4-dichlorobenzene eq."/kg
[E1340] 2-chlorophenol to industrial soil	0.37 kg 1,4-dichlorobenzene eq."/kg
[E1341] 3,4-dichloroaniline to industrial soil	18 kg 1,4-dichlorobenzene eq."/kg
[E1342] 3-chloroaniline to industrial soil	1.2 kg 1,4-dichlorobenzene eq."/kg
[E1343] 4-chloroaniline to industrial soil	11 kg 1,4-dichlorobenzene eq."/kg
[E1344] acephate to industrial soil	1.3 kg 1,4-dichlorobenzene eq."/kg
[E1345] Acrolein (2-propenal) to industrial soil	7000 kg 1,4-dichlorobenzene eq."/kg

[E1346] acrylonitrile to industrial soil	2.1 kg 1,4-dichlorobenzene eq."/kg
[E1347] aldicarb to industrial soil	4200 kg 1,4-dichlorobenzene eq."/kg
[E1348] aldrin to industrial soil	20 kg 1,4-dichlorobenzene eq."/kg
[E1350] anilazine to industrial soil	0.23 kg 1,4-dichlorobenzene eq."/kg
[E1351] anthracene to industrial soil	8.8 kg 1,4-dichlorobenzene eq."/kg
[E1352] antimony to industrial soil	1.3 kg 1,4-dichlorobenzene eq."/kg
[E1353] arsenic to industrial soil	3300 kg 1,4-dichlorobenzene eq."/kg
[E1354] atrazine to industrial soil	4.4 kg 1,4-dichlorobenzene eq."/kg
[E1355] azinphos-ethyl to industrial soil	72 kg 1,4-dichlorobenzene eq."/kg
[E1356] azinphos-methyl to industrial soil	1 kg 1,4-dichlorobenzene eq."/kg
[E1357] barium to industrial soil	10 kg 1,4-dichlorobenzene eq."/kg
[E1358] benomyl to industrial soil	3.5 kg 1,4-dichlorobenzene eq."/kg
[E1359] bentazone to industrial soil	0.5 kg 1,4-dichlorobenzene eq."/kg
[E1360] benzene to industrial soil	0.0034 kg 1,4-dichlorobenzene eq."/kg
[E1361] benzo[a]anthracene to industrial soil	31 kg 1,4-dichlorobenzene eq."/kg
[E1362] benzo[a]pyrene to industrial soil	23 kg 1,4-dichlorobenzene eq."/kg
[E1363] benzo[ghi]perylene to industrial soil	8.3 kg 1,4-dichlorobenzene eq."/kg
[E1364] benzo[k]fluoranthrene to industrial soil	390 kg 1,4-dichlorobenzene eq."/kg
[E1365] benzylchloride to industrial soil	0.71 kg 1,4-dichlorobenzene eq."/kg
[E1366] beryllium to industrial soil	3600 kg 1,4-dichlorobenzene eq."/kg
[E1367] bifenthrin to industrial soil	83 kg 1,4-dichlorobenzene eq."/kg
[E1368] Butylbenzylphtalate to industrial soil	0.01 kg 1,4-dichlorobenzene eq."/kg
[E1369] cadmium to industrial soil	170 kg 1,4-dichlorobenzene eq."/kg
[E1370] captafol to industrial soil	22 kg 1,4-dichlorobenzene eq."/kg
[E1371] captan to industrial soil	0.12 kg 1,4-dichlorobenzene eq."/kg
[E1372] carbaryl to industrial soil	0.14 kg 1,4-dichlorobenzene eq."/kg
[E1373] carbendazim to industrial soil	38 kg 1,4-dichlorobenzene eq."/kg
[E1374] carbofuran to industrial soil	5.9 kg 1,4-dichlorobenzene eq."/kg
[E1375] carbon disulfide to industrial soil	1.6 kg 1,4-dichlorobenzene eq."/kg
[E1376] Carcinogenic PAHs to industrial soil	6.3 kg 1,4-dichlorobenzene eq."/kg
[E1377] chlordane to industrial soil	73 kg 1,4-dichlorobenzene eq."/kg
[E1378] chlorfenvinphos to industrial soil	1.2 kg 1,4-dichlorobenzene eq."/kg
[E1379] chloridazon to industrial soil	0.68 kg 1,4-dichlorobenzene eq."/kg
[E1380] chlorobenzene to industrial soil	0.12 kg 1,4-dichlorobenzene eq."/kg
[E1381] chlorothalonil to industrial soil	0.61 kg 1,4-dichlorobenzene eq."/kg
[E1382] chlorpropham to industrial soil	0.12 kg 1,4-dichlorobenzene eq."/kg
[E1383] chlorpyriphos to industrial soil	17 kg 1,4-dichlorobenzene eq."/kg
[E1384] chromium III to industrial soil	6300 kg 1,4-dichlorobenzene eq."/kg
[E1385] chromium VI to industrial soil	6300 kg 1,4-dichlorobenzene eq."/kg
[E1386] chrysene to industrial soil	4.5 kg 1,4-dichlorobenzene eq."/kg
[E1387] cobalt to industrial soil	220 kg 1,4-dichlorobenzene eq."/kg
[E1388] copper to industrial soil	14 kg 1,4-dichlorobenzene eq."/kg
[E1389] coumaphos to industrial soil	12000 kg 1,4-dichlorobenzene eq."/kg
[E1390] cyanazine to industrial soil	63 kg 1,4-dichlorobenzene eq."/kg
[E1391] cypermethrin to industrial soil	78000 kg 1,4-dichlorobenzene eq."/kg
[E1392] cyromazine to industrial soil	630 kg 1,4-dichlorobenzene eq."/kg
[E1393] DDT to industrial soil	59 kg 1,4-dichlorobenzene eq."/kg
[E1394] deltamethrin to industrial soil	8.5 kg 1,4-dichlorobenzene eq."/kg
[E1395] demeton to industrial soil	49 kg 1,4-dichlorobenzene eq."/kg
[E1396] desmetryn to industrial soil	2.6 kg 1,4-dichlorobenzene eq."/kg
[E1397] Di(2-ethylhexyl)phtalate to industrial soil	0.0014 kg 1,4-dichlorobenzene eq."/kg
[E1398] diazinon to industrial soil	10 kg 1,4-dichlorobenzene eq."/kg
[E1399] Dibutylphtalate to industrial soil	0.023 kg 1,4-dichlorobenzene eq."/kg
[E1400] Dichloromethane (Methylene Chloride) to industrial soil	0.00025 kg 1,4-dichlorobenzene eq."/kg
[E1401] dichlorprop to industrial soil	0.0014 kg 1,4-dichlorobenzene eq."/kg
[E1402] dichlorvos to industrial soil	200 kg 1,4-dichlorobenzene eq."/kg
[E1403] dieldrin to industrial soil	100 kg 1,4-dichlorobenzene eq."/kg
[E1404] Diethylphtalate to industrial soil	2.1 kg 1,4-dichlorobenzene eq."/kg
[E1405] Dihexylphtalate to industrial soil	0.0073 kg 1,4-dichlorobenzene eq."/kg
[E1406] Diisodecylphtalate to industrial soil	0.004 kg 1,4-dichlorobenzene eq."/kg
[E1407] Diisooctylphtalate to industrial soil	0.00055 kg 1,4-dichlorobenzene eq."/kg
[E1408] dimethoate to industrial soil	0.62 kg 1,4-dichlorobenzene eq."/kg
[E1409] Dimethylphtalate to industrial soil	1.4 kg 1,4-dichlorobenzene eq."/kg
[E1410] dinoseb to industrial soil	420 kg 1,4-dichlorobenzene eq."/kg
[E1411] dinoterb to industrial soil	9.9 kg 1,4-dichlorobenzene eq."/kg
[E1412] Dioctylphtalate to industrial soil	4.80E-05 kg 1,4-dichlorobenzene eq."/kg
[E1413] disulfothon to industrial soil	11 kg 1,4-dichlorobenzene eq."/kg

[E1414] diuron to industrial soil	11 kg 1,4-dichlorobenzene eq."/kg
[E1415] DNOC to industrial soil	0.49 kg 1,4-dichlorobenzene eq."/kg
[E1416] endosulfan to industrial soil	2.8 kg 1,4-dichlorobenzene eq."/kg
[E1417] endrin to industrial soil	3600 kg 1,4-dichlorobenzene eq."/kg
[E1418] ethoprophos to industrial soil	190 kg 1,4-dichlorobenzene eq."/kg
[E1419] ethylbenzene to industrial soil	0.0019 kg 1,4-dichlorobenzene eq."/kg
[E1420] ethylene to industrial soil	2.30E-09 kg 1,4-dichlorobenzene eq."/kg
[E1421] fenitrothion to industrial soil	81 kg 1,4-dichlorobenzene eq."/kg
[E1422] fenthion to industrial soil	280 kg 1,4-dichlorobenzene eq."/kg
[E1423] fentin acetate to industrial soil	11 kg 1,4-dichlorobenzene eq."/kg
[E1424] fentin chloride to industrial soil	11 kg 1,4-dichlorobenzene eq."/kg
[E1425] fentin hydroxide to industrial soil	11 kg 1,4-dichlorobenzene eq."/kg
[E1426] fluoranthrene to industrial soil	2.3 kg 1,4-dichlorobenzene eq."/kg
[E1427] folpet to industrial soil	78 kg 1,4-dichlorobenzene eq."/kg
[E1428] Formaldehyde (methanal) to industrial soil	4.4 kg 1,4-dichlorobenzene eq."/kg
[E1429] glyphosate to industrial soil	0.096 kg 1,4-dichlorobenzene eq."/kg
[E1430] heptachlor to industrial soil	5.3 kg 1,4-dichlorobenzene eq."/kg
[E1431] heptenophos to industrial soil	16 kg 1,4-dichlorobenzene eq."/kg
[E1432] hexachloro-1,3-butadiene to industrial soil	47 kg 1,4-dichlorobenzene eq."/kg
[E1433] hexachlorobenzene to industrial soil	3 kg 1,4-dichlorobenzene eq."/kg
[E1436] indeno[1,2,3-cd]pyrene to industrial soil	13 kg 1,4-dichlorobenzene eq."/kg
[E1437] iprodione to industrial soil	0.3 kg 1,4-dichlorobenzene eq."/kg
[E1438] isoproturon to industrial soil	4.6 kg 1,4-dichlorobenzene eq."/kg
[E1439] lead to industrial soil	33 kg 1,4-dichlorobenzene eq."/kg
[E1440] lindane to industrial soil	22 kg 1,4-dichlorobenzene eq."/kg
[E1441] linuron to industrial soil	18 kg 1,4-dichlorobenzene eq."/kg
[E1442] malathion to industrial soil	0.075 kg 1,4-dichlorobenzene eq."/kg
[E1443] MCPA to industrial soil	0.086 kg 1,4-dichlorobenzene eq."/kg
[E1444] mecoprop to industrial soil	3.3 kg 1,4-dichlorobenzene eq."/kg
[E1445] mercury to industrial soil	56000 kg 1,4-dichlorobenzene eq."/kg
[E1446] metamitron to industrial soil	0.038 kg 1,4-dichlorobenzene eq."/kg
[E1447] metazachlor to industrial soil	0.15 kg 1,4-dichlorobenzene eq."/kg
[E1448] methabenzthiazuron to industrial soil	0.88 kg 1,4-dichlorobenzene eq."/kg
[E1449] methomyl to industrial soil	220 kg 1,4-dichlorobenzene eq."/kg
[E1450] methylbromide to industrial soil	0.37 kg 1,4-dichlorobenzene eq."/kg
[E1451] methyl-mercury to industrial soil	56000 kg 1,4-dichlorobenzene eq."/kg
[E1452] metobromuron to industrial soil	2.2 kg 1,4-dichlorobenzene eq."/kg
[E1453] metolachlor to industrial soil	0.41 kg 1,4-dichlorobenzene eq."/kg
[E1454] mevinphos to industrial soil	90 kg 1,4-dichlorobenzene eq."/kg
[E1455] molybdenum to industrial soil	36 kg 1,4-dichlorobenzene eq."/kg
[E1456] m-xylene to industrial soil	0.003 kg 1,4-dichlorobenzene eq."/kg
[E1457] naphtalene to industrial soil	2.6 kg 1,4-dichlorobenzene eq."/kg
[E1458] nickel to industrial soil	240 kg 1,4-dichlorobenzene eq."/kg
[E1460] oxamyl to industrial soil	6 kg 1,4-dichlorobenzene eq."/kg
[E1461] oxydemethon-methyl to industrial soil	85 kg 1,4-dichlorobenzene eq."/kg
[E1462] o-xylene to industrial soil	0.0034 kg 1,4-dichlorobenzene eq."/kg
[E1463] parathion-ethyl to industrial soil	17 kg 1,4-dichlorobenzene eq."/kg
[E1464] parathion-methyl to industrial soil	79 kg 1,4-dichlorobenzene eq."/kg
[E1465] pentachlorobenzene to industrial soil	1.7 kg 1,4-dichlorobenzene eq."/kg
[E1466] pentachloronitrobenzene to industrial soil	2.6 kg 1,4-dichlorobenzene eq."/kg
[E1467] pentachlorophenol to industrial soil	4.8 kg 1,4-dichlorobenzene eq."/kg
[E1468] permethrin to industrial soil	250 kg 1,4-dichlorobenzene eq."/kg
[E1469] phenanthrene to industrial soil	0.037 kg 1,4-dichlorobenzene eq."/kg
[E1470] phenol to industrial soil	0.041 kg 1,4-dichlorobenzene eq."/kg
[E1471] phoxim to industrial soil	3.8 kg 1,4-dichlorobenzene eq."/kg
[E1472] Phtalic anhydride to industrial soil	0.00042 kg 1,4-dichlorobenzene eq."/kg
[E1473] pirimicarb to industrial soil	94 kg 1,4-dichlorobenzene eq."/kg
[E1475] propachlor to industrial soil	2.3 kg 1,4-dichlorobenzene eq."/kg
[E1476] propoxur to industrial soil	1300 kg 1,4-dichlorobenzene eq."/kg
[E1477] propylene oxide to industrial soil	0.12 kg 1,4-dichlorobenzene eq."/kg
[E1478] p-xylene to industrial soil	0.0015 kg 1,4-dichlorobenzene eq."/kg
[E1479] pyrazophos to industrial soil	29 kg 1,4-dichlorobenzene eq."/kg
[E1480] selenium to industrial soil	110 kg 1,4-dichlorobenzene eq."/kg
[E1481] simazine to industrial soil	21 kg 1,4-dichlorobenzene eq."/kg
[E1482] styrene (vinylbenzene) to industrial soil	0.0012 kg 1,4-dichlorobenzene eq."/kg
[E1484] tetrachloroethylene (PER) to industrial soil	0.3 kg 1,4-dichlorobenzene eq."/kg
[E1485] Tetrachloromethane (carbon tetrachloride) (HC-10) to industrial soil	0.0021 kg 1,4-dichlorobenzene eq."/kg

[E1486] thallium to industrial soil	700 kg 1,4-dichlorobenzene eq."/kg
[E1487] Thiram to industrial soil	81 kg 1,4-dichlorobenzene eq."/kg
[E1488] tin to industrial soil	30 kg 1,4-dichlorobenzene eq."/kg
[E1489] tolclophos-methyl to industrial soil	1.5 kg 1,4-dichlorobenzene eq."/kg
[E1490] toluene to industrial soil	0.019 kg 1,4-dichlorobenzene eq."/kg
[E1491] tri-allate to industrial soil	1.3 kg 1,4-dichlorobenzene eq."/kg
[E1492] triazophos to industrial soil	200 kg 1,4-dichlorobenzene eq."/kg
[E1493] tributyltinoxide to industrial soil	37 kg 1,4-dichlorobenzene eq."/kg
[E1494] trichlorfon to industrial soil	2600 kg 1,4-dichlorobenzene eq."/kg
[E1495] Trichloroethylene (tri) to industrial soil	0.0021 kg 1,4-dichlorobenzene eq."/kg
[E1496] Trichloromethane=chloroform to industrial soil	0.0016 kg 1,4-dichlorobenzene eq."/kg
[E1497] trifluarin to industrial soil	34 kg 1,4-dichlorobenzene eq."/kg
[E1498] vanadium to industrial soil	1400 kg 1,4-dichlorobenzene eq."/kg
[E1499] Vinyl Chloride (chloroethene) to industrial soil	0.00031 kg 1,4-dichlorobenzene eq."/kg
[E1500] zinc to industrial soil	25 kg 1,4-dichlorobenzene eq."/kg
[E1501] zineb to industrial soil	15 kg 1,4-dichlorobenzene eq."/kg

Category = [C12] Acidification (Huijbregts, 1999)
Description = Problem oriented approach, manual 1999; AP; average Europe total, A&B
Author = Huijbregts, 1999
Date = 10/11/99

Environmental resources

Environmental resource	Value	Unit

Environmental emissions

Environmental emission	Value	Unit
[E250] ammonia, ammonium to air	1.3	kg SO2 eq./kg
[E643] nitrogen oxides to air	0.41	kg SO2 eq./kg
[E709] sulphur dioxide to air	1	kg SO2 eq./kg

Category = [C13] Eutrophication
Description = Problem oriented approach, manual 1999; EP
Author = Heijungs *et al 1992*
Date = 10/11/99

Environmental resources

Environmental resource	Value	Unit

Environmental emissions

Environmental emission	Value	Unit
[E250] ammonia, ammonium to air	0.35	kg PO4--- eq./kg
[E636] nitrate to air	0.1	kg PO4--- eq./kg
[E640] nitrogen to air	0.42	kg PO4--- eq./kg
[E641] nitrogen dioxide to air	0.13	kg PO4--- eq./kg
[E642] nitrogen mono oxide to air	0.2	kg PO4--- eq./kg
[E643] nitrogen oxides to air	0.13	kg PO4--- eq./kg
[E676] phosphate to air	1	kg PO4--- eq./kg
[E678] Phosphorus to air	3.06	kg PO4--- eq./kg
[E779] ammonia, ammonium to fresh water	0.35	kg PO4--- eq./kg
[E809] Chemical oxigen demand (COD) to fresh water	0.022	kg PO4--- eq./kg
[E894] Nitrate to fresh water	0.1	kg PO4--- eq./kg
[E896] Nitrogen to fresh water	0.42	kg PO4--- eq./kg
[E897] nitrogen dioxide to fresh water	0.13	kg PO4--- eq./kg
[E910] Phosphate to fresh water	1	kg PO4--- eq./kg
[E911] Phosphorus to fresh water	3.06	kg PO4--- eq./kg
[E973] ammonia, ammonium to sea water	0.35	kg PO4--- eq./kg
[E1003] Chemical oxigen demand (COD) to sea water	0.022	kg PO4--- eq./kg
[E1088] Nitrate to sea water	0.1	kg PO4--- eq./kg
[E1090] Nitrogen to sea water	0.42	kg PO4--- eq./kg
[E1091] nitrogen dioxide to sea water	0.13	kg PO4--- eq./kg
[E1104] Phosphate to sea water	1	kg PO4--- eq./kg
[E1105] Phosphorus to sea water	3.06	kg PO4--- eq./kg
[E1167] ammonia to agricultural soil	0.35	kg PO4--- eq./kg
[E1277] nitrogen dioxide to agricultural soil	0.13	kg PO4--- eq./kg

[E1349] ammonia to industrial soil	0.35 kg PO4--- eq./kg
[E1459] nitrogen dioxide to industrial soil	0.13 kg PO4--- eq./kg
[E1765] nitrate to agricultural soil	0.1 kg PO4--- eq./kg
[E1766] nitrate to industrial soil	0.1 kg PO4--- eq./kg
[E1767] nitrogen to agricultural soil	0.42 kg PO4--- eq./kg
[E1768] nitrogen to industrial soil	0.42 kg PO4--- eq./kg
[E1769] nitrogen mono oxide to fresh water	0.2 kg PO4--- eq./kg
[E1770] nitrogen mono oxide to sea water	0.2 kg PO4--- eq./kg
[E1771] nitrogen oxides to agricultural soil	0.13 kg PO4--- eq./kg
[E1772] nitrogen oxides to industrial soil	0.13 kg PO4--- eq./kg
[E1773] nitrogen oxides to fresh water	0.13 kg PO4--- eq./kg
[E1774] nitrogen oxides to sea water	0.13 kg PO4--- eq./kg
[E1775] Phosphate to agricultural soil	1 kg PO4--- eq./kg
[E1776] Phosphate to industrial soil	1 kg PO4--- eq./kg
[E1777] Phosphorus to agricultural soil	3.06 kg PO4--- eq./kg
[E1778] Phosphorus to industrial soil	3.06 kg PO4--- eq./kg

Category = [C14] Odour
Description = Problem oriented approach, manual 1999; malodourous air (1/OTV)
Author = Roos, 1989
Date = 27-09-1999

Environmental resources

Environmental resource	Value	Unit

Environmental emissions

Environmental emission	Value	Unit
[E90] 1,1,1-trichloroethane (methyl chloroform; HC-140a) to air	1.89E+05	m3/kg
[E100] 1,2,4-trimethylbenzene to air	7.14E+06	m3/kg
[E109] 1,3,5-trimethylbenzene (mesitylene) to air	5.56E+06	m3/kg
[E120] 1-Butanol to air	1.30E+07	m3/kg
[E123] 1-Butyl Acetate to air	3.23E+07	m3/kg
[E126] 1-butylpropionate to air	1.16E+07	m3/kg
[E189] 2-ethyl-5,5-dimethyl-1,3-dioxane to air	1.79E+11	m3/kg
[E204] 2-methylpropanoic acid (isobutyric acid) to air	2.00E+08	m3/kg
[E221] 3-methylbutanoic acid (isovaleric acid) to air	4.55E+09	m3/kg
[E232] Acetaldehyde (ethanal) to air	3.70E+09	m3/kg
[E233] Acetic acid to air	1.64E+07	m3/kg
[E234] Acetone (2-propanon) to air	13900	m3/kg
[E236] Acrolein (2-propenal) to air	1.45E+07	m3/kg
[E250] ammonia, ammonium to air	1.00E+06	m3/kg
[E288] butanoic acid (butyric acid) to air	2.86E+09	m3/kg
[E289] butylacrylate to air	6.67E+08	m3/kg
[E291] Butyraldehyde (butanal) to air	1.19E+09	m3/kg
[E394] carbon disulfide to air	5.56E+06	m3/kg
[E407] chlorobenzene to air	1.00E+06	m3/kg
[E440] decaline to air	3.57E+05	m3/kg
[E449] Dichloromethane (Methylene Chloride) to air	1560	m3/kg
[E454] diethylamine to air	1.11E+07	m3/kg
[E467] dimethylamine to air	7.14E+08	m3/kg
[E484] ethanethiol (ethylmercaptan) to air	2.27E+10	m3/kg
[E485] Ethanol to air	1.56E+06	m3/kg
[E488] Ethyl Acetate to air	4.76E+05	m3/kg
[E490] Ethyl Acrylate to air	1.22E+09	m3/kg
[E497] ethylbutyrate to air	3.33E+10	m3/kg
[E503] ethylthioethane (diethylsulfide) to air	7.14E+08	m3/kg
[E511] Formaldehyde (methanal) to air	2.04E+06	m3/kg
[E563] hydrogen sulfide to air	2.33E+09	m3/kg
[E571] isobutanol (2-methylpropanol-1) to air	2.86E+07	m3/kg
[E572] isobutene (2-methylpropene) to air	66700	m3/kg
[E577] isopentylacetate (iso-amylacetate) to air	1.33E+07	m3/kg
[E581] isopropyl benzene (cumene) to air	1.37E+07	m3/kg
[E582] isopropyl propionate to air	3.13E+06	m3/kg
[E593] meta-Cresol (3-methylphenol) to air	1.75E+09	m3/kg
[E596] meta-Xylene (1,3-dimethylbenzene) to air	1.85E+06	m3/kg
[E601] methanethiol (methylmercaptan) to air	4.17E+09	m3/kg

[E602] Methanol to air	13700	m3/kg
[E604] Methyl Acetate to air	45500	m3/kg
[E606] Methyl Acrylate to air	1.00E+08	m3/kg
[E608] Methyl Bromide to air	8.33E+08	m3/kg
[E612] methyl dithiomethane to air	6.67E+08	m3/kg
[E613] Methyl Ethyl Ketone to air	1.47E+06	m3/kg
[E616] Methyl Isobutyl Ketone (4-methylpentanon-2) to air	1.45E+06	m3/kg
[E618] methyl methacrylate to air	1.59E+06	m3/kg
[E621] methyl propionate to air	2.86E+05	m3/kg
[E623] methyl thiomethane (dimethylsulfide) to air	3.33E+09	m3/kg
[E648] ortho-Cresol (2-methylphenol) to air	5.56E+08	m3/kg
[E650] ortho-Xylene (1,2-dimethylbenzene) to air	1.28E+06	m3/kg
[E653] para-Cresol (4-methylphenol) to air	5.56E+09	m3/kg
[E658] para-Xylene (1,4-dimethylbenzene) to air	1.92E+06	m3/kg
[E675] Phenol to air	2.56E+07	m3/kg
[E688] Propanoic acid (propionic acid) to air	1.92E+08	m3/kg
[E689] Propionaldehyde (propanal) to air	2.86E+08	m3/kg
[E699] pyridine to air	8.33E+06	m3/kg
[E706] styrene (vinylbenzene) to air	1.47E+07	m3/kg
[E714] terephthaloyldichloride to air	3.13E+08	m3/kg
[E718] tetrachloroethylene (PER) (tetrachloroethene) to air	1.20E+05	m3/kg
[E727] Toluene to air	2.63E+05	m3/kg
[E737] Trichloroethylene (tri) to air	2.56E+05	m3/kg
[E740] Trimethylamine to air	3.85E+09	m3/kg
[E742] Valeraldehyde (pentanal) to air	4.17E+08	m3/kg

Category = [C15] Costs of environmental impacts (Extern E)
Description = Impact pathway approach; Externalities of energy
Author = European Commission, 1996
Date = 27-09-1999

Environmental resources

Environmental resource	Value	Unit

Environmental emissions

Environmental emission	Value	Unit
[E250] ammonia, ammonium to air	4.28	ecu/kg
[E393] Carbon dioxide to air	0.004	ecu/kg
[E395] Carbon Monoxide to air	0.007	ecu/kg
[E469] Dinitrogen oxide (nitrous oxide) to air	1.47	ecu/kg
[E600] Methane to air	0.086	ecu/kg
[E641] nitrogen dioxide to air	3.69	ecu/kg
[E643] nitrogen oxides to air	3.69	ecu/kg
[E683] PM10 to air	7.3	ecu/kg
[E709] sulphur dioxide to air	5.07	ecu/kg
[E741] TSP to air	12.3	ecu/kg

Category = [C16] Costs of environmental impacts (EPS)
Description = EPS
Author = Steen, 1996
Date = 27-09-1999

Environmental resources

Environmental resource	Value	Unit
[E2] aluminium (Al) from earth resources	0.42	elu/kg
[E5] arsenic (As) from earth resources	1900	elu/kg
[E8] bismuth (Bi) from earth resources	4.00E+05	elu/kg
[E11] cadmium (Cd) from earth resources	23000	elu/kg
[E16] cobalt (Co) from earth resources	136	elu/kg
[E17] copper (Cu) from earth resources	57	elu/kg
[E18] chromium (Cr) from earth resources	33	elu/kg
[E26] gold (Au) from earth resources	8.50E+05	elu/kg
[E33] iron (Fe) from earth resources	0.68	elu/kg
[E38] lead (Pb) from earth resources	240	elu/kg
[E41] manganese (Mn) from earth resources	3.6	elu/kg

[E42] mercury (Hg) from earth resources	40000	elu/kg
[E43] molybdenum (Mo) from earth resources	2800	elu/kg
[E46] nickel (Ni) from earth resources	40	elu/kg
[E51] platinum (Pt) from earth resources	6.80E+05	elu/kg
[E58] rhodium (Rh) from earth resources	3.40E+06	elu/kg
[E65] silver (Ag) from earth resources	45000	elu/kg
[E75] tin (Sn) from earth resources	1480	elu/kg
[E76] titanium (Ti) from earth resources	0.602	elu/kg
[E77] tungsten (W); wolfraam from earth resources	2720	elu/kg
[E78] uranium (U) from earth resources	1260	elu/kg
[E79] vanadium (V) from earth resources	28.3	elu/kg
[E83] zinc (Zn) from earth resources	49	elu/kg
[E84] Zirconium (Zr) from earth resources	20.6	elu/kg
[E85] oil crude from earth resources	0.5	elu/kg
[E87] coal soft from earth resources	0.05	elu/kg
[E88] coal hard from earth resources	0.05	elu/kg
[E89] coal total from earth resources	0.05	elu/kg

Environmental emissions

Environmental emission	Value	Unit
[E252] anthracene to air	8800	elu/kg
[E255] arsenic to air	10	elu/kg
[E264] benzo[a]anthracene to air	8800	elu/kg
[E265] benzo[a]pyrene to air	8800	elu/kg
[E266] benzo[ghi]perylene to air	8800	elu/kg
[E267] benzo[k]fluoranthrene to air	8800	elu/kg
[E385] cadmium to air	21.2	elu/kg
[E393] Carbon dioxide to air	0.0636	elu/kg
[E395] Carbon Monoxide to air	0.191	elu/kg
[E398] CFC-11 to air	216	elu/kg
[E413] chromium (unspecified) to air	0.8	elu/kg
[E414] chromium III to air	0.8	elu/kg
[E415] chromium VI to air	0.8	elu/kg
[E416] chrysene to air	8800	elu/kg
[E469] Dinitrogen oxide (nitrous oxide) to air	20.3	elu/kg
[E499] Ethylene (ethene) to air	3.4	elu/kg
[E509] fluoranthrene to air	8800	elu/kg
[E563] hydrogen sulfide to air	0.142	elu/kg
[E566] indeno[1,2,3-cd]pyrene to air	8800	elu/kg
[E584] lead to air	291	elu/kg
[E592] mercury to air	177	elu/kg
[E600] Methane to air	1.56	elu/kg
[E633] Naphtalene to air	8800	elu/kg
[E641] nitrogen dioxide to air	0.395	elu/kg
[E643] nitrogen oxides to air	0.395	elu/kg
[E674] phenanthrene to air	8800	elu/kg
[E683] PM10 to air	0.0071	elu/kg
[E684] Polycyclic Aromatic Hydrocarbons (PAH) (unspecified) to air	8800	elu/kg
[E685] Polycyclic Aromatic Hydrocarbons Carcinogenic- (carcinogenic-PAH) to air	8800	elu/kg
[E709] sulphur dioxide to air	0.0545	elu/kg
[E741] TSP to air	0.0071	elu/kg
[E798] Biological Oxygen Demand (BOD) to fresh water	0.0075	elu/kg
[E809] Chemical oxigen demand (COD) to fresh water	0.006	elu/kg
[E894] Nitrate to fresh water	0.00226	elu/kg
[E896] Nitrogen to fresh water	0.01	elu/kg
[E910] Phosphate to fresh water	0.0245	elu/kg
[E911] Phosphorus to fresh water	0.075	elu/kg
[E992] Biological Oxygen Demand (BOD) to sea water	0.0075	elu/kg
[E1003] Chemical oxigen demand (COD) to sea water	0.006	elu/kg
[E1088] Nitrate to sea water	0.00226	elu/kg
[E1090] Nitrogen to sea water	0.01	elu/kg
[E1104] Phosphate to sea water	0.0245	elu/kg
[E1105] Phosphorus to sea water	0.075	elu/kg

Category = [C17] Ecoscarcity Swiss
Description = Distance to target approach, ecoscarcity in Switzerland

Author = Ahbe et al, 1990
Date = 27-09-1999

Environmental resources

Environmental resource	Value	Unit

Environmental emissions

Environmental emission	Value	Unit
[E90] 1,1,1-trichloroethane (methyl chloroform; HC-140a) to air	14300	Ecopoints/kg
[E91] 1,1,2-Trichloroethane to air	14300	Ecopoints/kg
[E92] 1,1-Dichloroethane to air	14300	Ecopoints/kg
[E93] 1,1-Dichloroethene to air	14300	Ecopoints/kg
[E94] 1,2,3,4-tetrachlorobenzene to air	14300	Ecopoints/kg
[E95] 1,2,3,5-tetrachlorobenzene to air	14300	Ecopoints/kg
[E96] 1,2,3-trichlorobenzene to air	14300	Ecopoints/kg
[E97] 1,2,3-Trimethyl Benzene to air	14300	Ecopoints/kg
[E98] 1,2,4,5-tetrachlorobenzene to air	14300	Ecopoints/kg
[E99] 1,2,4-trichlorobenzene to air	14300	Ecopoints/kg
[E100] 1,2,4-trimethylbenzene to air	14300	Ecopoints/kg
[E101] 1,2-Butanediol to air	14300	Ecopoints/kg
[E102] 1,2-dichlorobenzene to air	14300	Ecopoints/kg
[E103] 1,2-dichloroethane to air	14300	Ecopoints/kg
[E104] 1,2-Dichloropropane to air	14300	Ecopoints/kg
[E105] 1,2-Dihydroxy Hexane to air	14300	Ecopoints/kg
[E106] 1,3 Diethyl-Cyclohexane to air	14300	Ecopoints/kg
[E107] 1,3,5-trichlorobenzene to air	14300	Ecopoints/kg
[E108] 1,3,5-Triethyl Cyclohex. to air	14300	Ecopoints/kg
[E109] 1,3,5-trimethylbenzene (mesitylene) to air	14300	Ecopoints/kg
[E110] 1,3,5-Tripropyl Cyclohex. to air	14300	Ecopoints/kg
[E111] 1,3-Butadiene to air	14300	Ecopoints/kg
[E112] 1,3-dichlorobenzene to air	14300	Ecopoints/kg
[E113] 1,3-Dimeth. Cyclopentane to air	14300	Ecopoints/kg
[E114] 1,3-Dimethyl Cyclohexane to air	14300	Ecopoints/kg
[E115] 1,3-Diprop-5-Eth Cyclohex. to air	14300	Ecopoints/kg
[E116] 1,4-dichlorobenzene to air	14300	Ecopoints/kg
[E117] 13-Dieth.-5-Pent Cyclohex. to air	14300	Ecopoints/kg
[E118] 13-Dieth-5-Me. Cyclohex. to air	14300	Ecopoints/kg
[E119] 1-Butane to air	14300	Ecopoints/kg
[E120] 1-Butanol to air	14300	Ecopoints/kg
[E121] 1-Butene to air	14300	Ecopoints/kg
[E122] 1-Butoxy Propanol to air	14300	Ecopoints/kg
[E123] 1-Butyl Acetate to air	14300	Ecopoints/kg
[E124] 1-Butyl Benzene to air	14300	Ecopoints/kg
[E125] 1-Butyl Bromide to air	14300	Ecopoints/kg
[E126] 1-butylpropionate to air	14300	Ecopoints/kg
[E127] 1-C16 to air	14300	Ecopoints/kg
[E128] 1-chloro-4-nitrobenzene to air	14300	Ecopoints/kg
[E129] 1-Chlorobutane to air	14300	Ecopoints/kg
[E130] 1-Decane to air	14300	Ecopoints/kg
[E131] 1-Dodecane to air	14300	Ecopoints/kg
[E132] 1-Eth.-4-Meth. Cyclohex to air	14300	Ecopoints/kg
[E133] 1-Ethoxy-2-Propanol to air	14300	Ecopoints/kg
[E134] 1-Heptane to air	14300	Ecopoints/kg
[E135] 1-Heptanol to air	14300	Ecopoints/kg
[E136] 1-Heptene to air	14300	Ecopoints/kg
[E137] 1-Hexane to air	14300	Ecopoints/kg
[E138] 1-Hexene to air	14300	Ecopoints/kg
[E139] 1-Methoxy-2-Propanol to air	14300	Ecopoints/kg
[E140] 1-Methyl-2-Pyrrolidone to air	14300	Ecopoints/kg
[E141] 1-Nonane to air	14300	Ecopoints/kg
[E142] 1-Nonene to air	14300	Ecopoints/kg
[E143] 1-Octane to air	14300	Ecopoints/kg
[E144] 1-Octanol to air	14300	Ecopoints/kg
[E145] 1-Octene to air	14300	Ecopoints/kg
[E146] 1-Pentadecane to air	14300	Ecopoints/kg
[E147] 1-Pentane to air	14300	Ecopoints/kg
[E148] 1-Pentene to air	14300	Ecopoints/kg

[E149] 1-Propanol to air	14300 Ecopoints/kg
[E150] 1-Propyl Benzene to air	14300 Ecopoints/kg
[E151] 1-Propyl Bromide to air	14300 Ecopoints/kg
[E152] 1-Tetradecane to air	14300 Ecopoints/kg
[E153] 1-Tridecane to air	14300 Ecopoints/kg
[E154] 1-Undecane to air	14300 Ecopoints/kg
[E155] 2- Octanol to air	14300 Ecopoints/kg
[E156] 2-(2-Butoxyethoxy)-Ethanol to air	14300 Ecopoints/kg
[E157] 2-(2-Ethoxyethoxy)-Ethanol to air	14300 Ecopoints/kg
[E158] 2-(Cl-methyl)-3-Cl-Propene to air	14300 Ecopoints/kg
[E159] 2,2,3 Trimethyl Butane to air	14300 Ecopoints/kg
[E160] 2,2,3,3-Tetramethyl Butane to air	14300 Ecopoints/kg
[E161] 2,2,4-Trimethyl Pentane to air	14300 Ecopoints/kg
[E162] 2,2,5-Trimethyl Hexane to air	14300 Ecopoints/kg
[E163] 2,2-Dimethylbutane to air	14300 Ecopoints/kg
[E164] 2,3 Dimethyl Pentane to air	14300 Ecopoints/kg
[E165] 2,3,3-Trimehyl-1-butene to air	14300 Ecopoints/kg
[E166] 2,3,4,6-tetrachlorophenol to air	14300 Ecopoints/kg
[E167] 2,3,4-Trimethyl Pentane to air	14300 Ecopoints/kg
[E168] 2,3,7,8-TCDD (tetrachloride-dibenzo-dioxin) to air	14300 Ecopoints/kg
[E169] 2,3-Dimethyl Hexane to air	14300 Ecopoints/kg
[E170] 2,3-Dimethyl Naptht. to air	14300 Ecopoints/kg
[E171] 2,3-Dimethyl-2-Butene to air	14300 Ecopoints/kg
[E173] 2,4,5-trichlorophenol to air	14300 Ecopoints/kg
[E174] 2,4,6-trichlorophenol to air	14300 Ecopoints/kg
[E176] 2,4-dichlorophenol to air	14300 Ecopoints/kg
[E177] 2,4-Dimethyl Heptane to air	14300 Ecopoints/kg
[E178] 2,4-Dimethyl Hexane to air	14300 Ecopoints/kg
[E179] 2,4-Dimethyl Pentane to air	14300 Ecopoints/kg
[E180] 2,5-Dimethyl Hexane to air	14300 Ecopoints/kg
[E181] 2,6 Diethyl Octane to air	14300 Ecopoints/kg
[E182] 2.3- Dimethylbutane to air	14300 Ecopoints/kg
[E183] 2-Butoxy-Ethanol to air	14300 Ecopoints/kg
[E184] 2-Butyltetrahydrofuran to air	14300 Ecopoints/kg
[E185] 2-chlorophenol to air	14300 Ecopoints/kg
[E186] 2-Ethoxy-Ethanol to air	14300 Ecopoints/kg
[E187] 2-Ethoxyethyl Acetate to air	14300 Ecopoints/kg
[E188] 2-Ethyl-1-Hexanol to air	14300 Ecopoints/kg
[E190] 2-Heptenes to air	14300 Ecopoints/kg
[E191] 2-Hexenes to air	14300 Ecopoints/kg
[E192] 2-Methoxy-Ethanol to air	14300 Ecopoints/kg
[E193] 2-Methyl-1-Butene to air	14300 Ecopoints/kg
[E194] 2-Methyl-1-Pentene to air	14300 Ecopoints/kg
[E195] 2-Methyl-2-Butene to air	14300 Ecopoints/kg
[E196] 2-Methyl-2-Pentene to air	14300 Ecopoints/kg
[E197] 2-Methylbutan-1-ol to air	14300 Ecopoints/kg
[E198] 2-Methylbutan-2-ol to air	14300 Ecopoints/kg
[E199] 2-Methylheptane to air	14300 Ecopoints/kg
[E200] 2-Methylhexane to air	14300 Ecopoints/kg
[E201] 2-Methylnonane to air	14300 Ecopoints/kg
[E202] 2-Methyloctane to air	14300 Ecopoints/kg
[E203] 2-Methylpentane to air	14300 Ecopoints/kg
[E204] 2-methylpropanoic acid (isobutyric acid) to air	14300 Ecopoints/kg
[E205] 2-Pentenes to air	14300 Ecopoints/kg
[E206] 3- Octanol to air	14300 Ecopoints/kg
[E207] 3-(Chloromethyl)-Heptane to air	14300 Ecopoints/kg
[E208] 3,4-dichloroaniline to air	14300 Ecopoints/kg
[E209] 3,4-Propyl Heptane to air	14300 Ecopoints/kg
[E210] 3,5 Diethyl Heptane to air	14300 Ecopoints/kg
[E211] 3,5-Diethyltoluene to air	14300 Ecopoints/kg
[E212] 3,5-Dimethylethylbenzene to air	14300 Ecopoints/kg
[E213] 3,7-Diethyl Nonane to air	14300 Ecopoints/kg
[E214] 3,8 Diethyl Decane to air	14300 Ecopoints/kg
[E215] 3,9-Diethyl Undecane to air	14300 Ecopoints/kg
[E216] 3-Carene to air	14300 Ecopoints/kg
[E217] 3-chloroaniline to air	14300 Ecopoints/kg
[E218] 3-Methyl-1-Butene to air	14300 Ecopoints/kg

[E219] 3-Methylbutan-1-ol to air	14300 Ecopoints/kg
[E220] 3-Methylbutan-2-ol to air	14300 Ecopoints/kg
[E221] 3-methylbutanoic acid (isovaleric acid) to air	14300 Ecopoints/kg
[E222] 3-Methylheptane to air	14300 Ecopoints/kg
[E223] 3-Methylhexane to air	14300 Ecopoints/kg
[E224] 3-Methylpentane to air	14300 Ecopoints/kg
[E225] 3-Nonenes to air	14300 Ecopoints/kg
[E226] 3-Octenes to air	14300 Ecopoints/kg
[E227] 3-Pentanol to air	14300 Ecopoints/kg
[E228] 4-chloroaniline to air	14300 Ecopoints/kg
[E229] 4-Ethyl Heptane to air	14300 Ecopoints/kg
[E230] 4-Methylheptane to air	14300 Ecopoints/kg
[E232] Acetaldehyde (ethanal) to air	14300 Ecopoints/kg
[E233] Acetic acid to air	14300 Ecopoints/kg
[E234] Acetone (2-propanon) to air	14300 Ecopoints/kg
[E235] Acetylene to air	14300 Ecopoints/kg
[E236] Acrolein (2-propenal) to air	14300 Ecopoints/kg
[E237] Acrylonitrile to air	14300 Ecopoints/kg
[E239] alcohols (unspec.) to air	14300 Ecopoints/kg
[E240] aldehydes (unspec.) to air	14300 Ecopoints/kg
[E243] alkanes (unspec.) to air	14300 Ecopoints/kg
[E244] alkenes (unspec.) to air	14300 Ecopoints/kg
[E245] Alkyl Phenols to air	14300 Ecopoints/kg
[E246] Allyl chloride to air	14300 Ecopoints/kg
[E247] Alpha Methyl Tetrahydrofuran to air	14300 Ecopoints/kg
[E248] alpha-Methyl Styrene to air	14300 Ecopoints/kg
[E249] alpha-Pinene to air	14300 Ecopoints/kg
[E252] anthracene to air	14300 Ecopoints/kg
[E254] aromatics (unspecified) to air	14300 Ecopoints/kg
[E262] Benzaldehyde to air	14300 Ecopoints/kg
[E263] Benzene to air	14300 Ecopoints/kg
[E264] benzo[a]anthracene to air	14300 Ecopoints/kg
[E265] benzo[a]pyrene to air	14300 Ecopoints/kg
[E266] benzo[ghi]perylene to air	14300 Ecopoints/kg
[E267] benzo[k]fluoranthrene to air	14300 Ecopoints/kg
[E268] Benzotrifluoride to air	14300 Ecopoints/kg
[E271] Beta-Pinene to air	14300 Ecopoints/kg
[E273] Branched C10 Alkanes to air	14300 Ecopoints/kg
[E274] Branched C11 Alkanes to air	14300 Ecopoints/kg
[E275] Branched C12 Alkanes to air	14300 Ecopoints/kg
[E276] Branched C13 Alkanes to air	14300 Ecopoints/kg
[E277] Branched C14 Alkanes to air	14300 Ecopoints/kg
[E278] Branched C15 Alkanes to air	14300 Ecopoints/kg
[E279] Branched C16 Alkanes to air	14300 Ecopoints/kg
[E280] Branched C17 Alkanes to air	14300 Ecopoints/kg
[E281] Branched C18 Alkanes to air	14300 Ecopoints/kg
[E282] Branched C5 Alkanes to air	14300 Ecopoints/kg
[E283] Branched C6 Alkanes to air	14300 Ecopoints/kg
[E284] Branched C7 Alkanes to air	14300 Ecopoints/kg
[E285] Branched C8 Alkanes to air	14300 Ecopoints/kg
[E286] Branched C9 Alkanes to air	14300 Ecopoints/kg
[E287] butane (unspec.) to air	14300 Ecopoints/kg
[E288] butanoic acid (butyric acid) to air	14300 Ecopoints/kg
[E289] butylacrylate to air	14300 Ecopoints/kg
[E290] Butylbenzylphtalate to air	14300 Ecopoints/kg
[E291] Butyraldehyde (butanal) to air	14300 Ecopoints/kg
[E292] C10 3-Alkenes to air	14300 Ecopoints/kg
[E293] C10 Bicycloalkanes to air	14300 Ecopoints/kg
[E294] C10 Cyclic Ketones to air	14300 Ecopoints/kg
[E295] C10 Cyclic or di-olefins to air	14300 Ecopoints/kg
[E296] C10 Cycloalkanes to air	14300 Ecopoints/kg
[E297] C10 Disub. Benzenes to air	14300 Ecopoints/kg
[E298] C10 Internal Alkenes to air	14300 Ecopoints/kg
[E299] C10 Ketones to air	14300 Ecopoints/kg
[E300] C10 Monosub. Benzenes to air	14300 Ecopoints/kg
[E301] C10 Styrenes to air	14300 Ecopoints/kg
[E302] C10 Tetrasub. Benzenes to air	14300 Ecopoints/kg

[E303] C10 Trisub. Benzenes to air	14300 Ecopoints/kg
[E304] C11 3-Alkenes to air	14300 Ecopoints/kg
[E305] C11 Bicycloalkanes to air	14300 Ecopoints/kg
[E306] C11 Cyclic or di-olefins to air	14300 Ecopoints/kg
[E307] C11 Cycloalkanes to air	14300 Ecopoints/kg
[E308] C11 Disub. Benzenes to air	14300 Ecopoints/kg
[E309] C11 Internal Alkenes to air	14300 Ecopoints/kg
[E310] C11 Monosub. Benzenes to air	14300 Ecopoints/kg
[E311] C11 Pentasub. Benzenes to air	14300 Ecopoints/kg
[E312] C11 Pentasub. Benzenes to air	14300 Ecopoints/kg
[E313] C11 Tetralin or Indane to air	14300 Ecopoints/kg
[E314] C11 Tetrasub. Benzenes to air	14300 Ecopoints/kg
[E315] C11 Trisub. Benzenes to air	14300 Ecopoints/kg
[E316] C12 2-Alkenes to air	14300 Ecopoints/kg
[E317] C12 3-Alkenes to air	14300 Ecopoints/kg
[E318] C12 Bicycloalkanes to air	14300 Ecopoints/kg
[E319] C12 Cyclic or di-olefins to air	14300 Ecopoints/kg
[E320] C12 Cycloalkanes to air	14300 Ecopoints/kg
[E321] C12 Disub. Benzenes to air	14300 Ecopoints/kg
[E322] C12 Disub. Naphthalenes to air	14300 Ecopoints/kg
[E323] C12 Hexaasub. Benzenes to air	14300 Ecopoints/kg
[E324] C12 Internal Alkenes to air	14300 Ecopoints/kg
[E325] C12 Monosub. Benzenes to air	14300 Ecopoints/kg
[E326] C12 Monosub. Naphth. to air	14300 Ecopoints/kg
[E327] C12 Tetrasub. Benzenes to air	14300 Ecopoints/kg
[E328] C12 Trisub. Benzenes to air	14300 Ecopoints/kg
[E329] C13 3-Alkenes to air	14300 Ecopoints/kg
[E330] C13 Bicycloalkanes to air	14300 Ecopoints/kg
[E331] C13 Cyclic or di-olefins to air	14300 Ecopoints/kg
[E332] C13 Cycloalkanes to air	14300 Ecopoints/kg
[E333] C13 Disub. Benzenes to air	14300 Ecopoints/kg
[E334] C13 Disub. Naphthalenes to air	14300 Ecopoints/kg
[E335] C13 Internal Alkenes to air	14300 Ecopoints/kg
[E336] C13 Monosub. Benzenes to air	14300 Ecopoints/kg
[E337] C13 Monosub. Naphth. to air	14300 Ecopoints/kg
[E338] C13 Trisub. Benzenes to air	14300 Ecopoints/kg
[E339] C13 Trisub. Naphthalenes to air	14300 Ecopoints/kg
[E340] C14 Bicycloalkanes to air	14300 Ecopoints/kg
[E341] C14 Cycloalkanes to air	14300 Ecopoints/kg
[E342] C15 Bicycloalkanes to air	14300 Ecopoints/kg
[E343] C15 Cycloalkanes to air	14300 Ecopoints/kg
[E344] C3 Adehydes to air	14300 Ecopoints/kg
[E345] C4 Aldehydes to air	14300 Ecopoints/kg
[E346] C4 Internal Alkenes to air	14300 Ecopoints/kg
[E347] C5 Adehydes to air	14300 Ecopoints/kg
[E348] C5 Cyclic Ketones to air	14300 Ecopoints/kg
[E349] C5 Internal Alkenes to air	14300 Ecopoints/kg
[E350] C5 Ketones to air	14300 Ecopoints/kg
[E351] C5 Terminal Alkenes to air	14300 Ecopoints/kg
[E352] C6 Adehydes to air	14300 Ecopoints/kg
[E353] C6 Cyclic Ketones to air	14300 Ecopoints/kg
[E354] C6 Cyclic or di-olefins to air	14300 Ecopoints/kg
[E355] C6 Cycloalkanes to air	14300 Ecopoints/kg
[E356] C6 Internal Alkenes to air	14300 Ecopoints/kg
[E357] C6 Ketones to air	14300 Ecopoints/kg
[E358] C6 Terminal Alkenes to air	14300 Ecopoints/kg
[E359] C7 Adehydes to air	14300 Ecopoints/kg
[E360] C7 Cyclic Ketones to air	14300 Ecopoints/kg
[E361] C7 Cyclic or di-olefins to air	14300 Ecopoints/kg
[E362] C7 Cycloalkanes to air	14300 Ecopoints/kg
[E363] C7 Internal Alkenes to air	14300 Ecopoints/kg
[E364] C7 Ketones to air	14300 Ecopoints/kg
[E365] C7 Terminal Alkenes to air	14300 Ecopoints/kg
[E366] C8 Aldehydes to air	14300 Ecopoints/kg
[E367] C8 Cyclic Ketones to air	14300 Ecopoints/kg
[E368] C8 Cyclic or di-olefins to air	14300 Ecopoints/kg
[E369] C8 Cycloalkanes to air	14300 Ecopoints/kg

[E370] C8 Disub. Benzenes to air	14300 Ecopoints/kg
[E371] C8 Internal Alkenes to air	14300 Ecopoints/kg
[E372] C8 Ketones to air	14300 Ecopoints/kg
[E373] C8 Terminal Alkenes to air	14300 Ecopoints/kg
[E374] C9 Bicycloalkanes to air	14300 Ecopoints/kg
[E375] C9 Cyclic Ketones to air	14300 Ecopoints/kg
[E376] C9 Cyclic or di-olefins to air	14300 Ecopoints/kg
[E377] C9 Cycloalkanes to air	14300 Ecopoints/kg
[E378] C9 Disub. Benzenes to air	14300 Ecopoints/kg
[E379] C9 Internal Alkenes to air	14300 Ecopoints/kg
[E380] C9 Ketones to air	14300 Ecopoints/kg
[E381] C9 Monosub. Benzenes to air	14300 Ecopoints/kg
[E382] C9 Styrenes to air	14300 Ecopoints/kg
[E383] C9 Terminal Alkenes to air	14300 Ecopoints/kg
[E384] C9 Trisub. Benzenes to air	14300 Ecopoints/kg
[E393] Carbon dioxide to air	36 Ecopoints/kg
[E396] CFC (hard) (unspecified) to air	4.50E+06 Ecopoints/kg
[E397] CFC (soft) (unspecified) to air	4.50E+06 Ecopoints/kg
[E398] CFC-11 to air	4.50E+06 Ecopoints/kg
[E399] CFC-113 to air	4.50E+06 Ecopoints/kg
[E400] CFC-114 to air	4.50E+06 Ecopoints/kg
[E401] CFC-115 to air	4.50E+06 Ecopoints/kg
[E402] CFC-12 to air	4.50E+06 Ecopoints/kg
[E403] CFC-13 to air	4.50E+06 Ecopoints/kg
[E407] chlorobenzene to air	14300 Ecopoints/kg
[E408] Chlorophenols (unspec.) to air	14300 Ecopoints/kg
[E409] Chloropicrin to air	14300 Ecopoints/kg
[E416] chrysene to air	14300 Ecopoints/kg
[E417] cis-2-Butene to air	14300 Ecopoints/kg
[E418] cis-2-Hexene to air	14300 Ecopoints/kg
[E419] cis-2-Pentene to air	14300 Ecopoints/kg
[E420] cis-Dichloroethene to air	14300 Ecopoints/kg
[E424] Crotonaldehyde to air	14300 Ecopoints/kg
[E426] Cyanides to air	14300 Ecopoints/kg
[E427] cyclic alkanes (unspec.) to air	14300 Ecopoints/kg
[E428] Cyclobutane to air	14300 Ecopoints/kg
[E429] Cyclohexane to air	14300 Ecopoints/kg
[E430] Cyclohexanol to air	14300 Ecopoints/kg
[E431] Cyclohexanone to air	14300 Ecopoints/kg
[E432] Cyclohexene to air	14300 Ecopoints/kg
[E433] Cyclopentadiene to air	14300 Ecopoints/kg
[E434] Cyclopentane to air	14300 Ecopoints/kg
[E435] Cyclopentene to air	14300 Ecopoints/kg
[E436] Cyclopropane to air	14300 Ecopoints/kg
[E444] Di(2-ethylhexyl)phtalate to air	14300 Ecopoints/kg
[E445] Diacetone alcohol to air	14300 Ecopoints/kg
[E447] Dibutyl Ether to air	14300 Ecopoints/kg
[E448] Dibutylphtalate to air	14300 Ecopoints/kg
[E449] Dichloromethane (Methylene Chloride) to air	14300 Ecopoints/kg
[E453] Diethyl Ether to air	14300 Ecopoints/kg
[E454] diethylamine to air	14300 Ecopoints/kg
[E455] Diethylketone to air	14300 Ecopoints/kg
[E456] Diethylphtalate to air	14300 Ecopoints/kg
[E457] Dihexylphtalate to air	14300 Ecopoints/kg
[E458] Diisodecylphtalate to air	14300 Ecopoints/kg
[E459] Diisooctylphtalate to air	14300 Ecopoints/kg
[E460] Diisopropylether to air	14300 Ecopoints/kg
[E462] Dimethyl Adipate to air	14300 Ecopoints/kg
[E463] Dimethyl Ether to air	14300 Ecopoints/kg
[E464] Dimethyl Glutarate to air	14300 Ecopoints/kg
[E465] Dimethyl Naphthalenes to air	14300 Ecopoints/kg
[E466] Dimethyl Succinate to air	14300 Ecopoints/kg
[E467] dimethylamine to air	14300 Ecopoints/kg
[E468] Dimethylphtalate to air	14300 Ecopoints/kg
[E472] Dioctylphtalate to air	14300 Ecopoints/kg
[E473] dioxins (unspec.) to air	14300 Ecopoints/kg
[E474] diphenyl to air	14300 Ecopoints/kg

[E477] d-Limonene to air	14300 Ecopoints/kg
[E482] esters (unspec.) to air	14300 Ecopoints/kg
[E483] Ethane to air	14300 Ecopoints/kg
[E484] ethanethiol (ethylmercaptan) to air	14300 Ecopoints/kg
[E485] Ethanol to air	14300 Ecopoints/kg
[E486] ethers (unspec.) to air	14300 Ecopoints/kg
[E488] Ethyl Acetate to air	14300 Ecopoints/kg
[E489] Ethyl Acetylene to air	14300 Ecopoints/kg
[E490] Ethyl Acrylate to air	14300 Ecopoints/kg
[E491] Ethyl Amine to air	14300 Ecopoints/kg
[E492] Ethyl Chloride to air	14300 Ecopoints/kg
[E493] Ethyl Cyclopentane to air	14300 Ecopoints/kg
[E494] Ethyl Isopropyl Ether to air	14300 Ecopoints/kg
[E495] Ethyl- trans-Butyl Ether to air	14300 Ecopoints/kg
[E496] Ethylbenzene to air	14300 Ecopoints/kg
[E497] ethylbutyrate to air	14300 Ecopoints/kg
[E498] Ethylcyclohexane to air	14300 Ecopoints/kg
[E499] Ethylene (ethene) to air	14300 Ecopoints/kg
[E500] Ethylene Dibromide to air	14300 Ecopoints/kg
[E501] Ethylene Dichloride to air	14300 Ecopoints/kg
[E502] Ethylene Glycol to air	14300 Ecopoints/kg
[E503] ethylthioethane (diethylsulfide) to air	14300 Ecopoints/kg
[E509] fluoranthrene to air	14300 Ecopoints/kg
[E511] Formaldehyde (methanal) to air	14300 Ecopoints/kg
[E512] Formic acid to air	14300 Ecopoints/kg
[E513] Furan to air	14300 Ecopoints/kg
[E514] Furanes (unspec.) to air	14300 Ecopoints/kg
[E515] Glyoxal to air	14300 Ecopoints/kg
[E517] HALON (HBFC-2401) to air	14300 Ecopoints/kg
[E518] HALON-1201 (HBFC-1201) to air	14300 Ecopoints/kg
[E519] HALON-1202 to air	14300 Ecopoints/kg
[E520] HALON-1211 to air	14300 Ecopoints/kg
[E521] HALON-1301 to air	14300 Ecopoints/kg
[E522] HALON-2311 (HBFC-2311) to air	14300 Ecopoints/kg
[E523] HALON-2402 (Di-Broom-tetra-Fluor-ethane) to air	14300 Ecopoints/kg
[E524] halons (unspecified) to air	14300 Ecopoints/kg
[E525] HCFC-123 (1,1-Di-Chloro-222-Tri-Fluorethaan) to air	4.50E+06 Ecopoints/kg
[E526] HCFC-124 (1-Chloro-1222-Tetra-Fluor-Ethane) to air	4.50E+06 Ecopoints/kg
[E527] HCFC-141b (Dichlorofluorethane) to air	4.50E+06 Ecopoints/kg
[E528] HCFC-142b (1-Chloro-1,1-Difluorethane) to air	4.50E+06 Ecopoints/kg
[E529] HCFC-22 (Chlorodifluormethane) to air	4.50E+06 Ecopoints/kg
[E530] HCFC-225ca to air	4.50E+06 Ecopoints/kg
[E531] HCFC-225cb to air	4.50E+06 Ecopoints/kg
[E537] hexachlorobenzene to air	14300 Ecopoints/kg
[E541] Hexyl Cyclohexane to air	14300 Ecopoints/kg
[E542] HFC (unspec.) to air	14300 Ecopoints/kg
[E543] HFC-125 (Pentafluoroethane) to air	14300 Ecopoints/kg
[E544] HFC-134 (1,1,1,2-tetra-fluor-ethane) to air	14300 Ecopoints/kg
[E545] HFC-134a (1,1,1,2-tetrafluoroethane) to air	14300 Ecopoints/kg
[E546] HFC-143 to air	14300 Ecopoints/kg
[E547] HFC-143a (1,1,1-trifluoroethane) to air	14300 Ecopoints/kg
[E548] HFC-152a (1,1-difluoroethane) to air	14300 Ecopoints/kg
[E549] HFC-227ea to air	14300 Ecopoints/kg
[E550] HFC-23 to air	14300 Ecopoints/kg
[E551] HFC-236fa to air	14300 Ecopoints/kg
[E552] HFC-245ca to air	14300 Ecopoints/kg
[E553] HFC-32 to air	14300 Ecopoints/kg
[E554] HFC-41 to air	14300 Ecopoints/kg
[E555] HFC-43-10mee to air	14300 Ecopoints/kg
[E556] Hydrocarbons to air	14300 Ecopoints/kg
[E557] Hydrocarbons (excl. methane) to air	14300 Ecopoints/kg
[E558] Hydrocarbons Chloro-Fluor- (HCFC) to air	14300 Ecopoints/kg
[E559] Hydrocarbons haloginated to air	14300 Ecopoints/kg
[E561] hydrogen chloride to air	42300 Ecopoints/kg
[E565] Indan to air	14300 Ecopoints/kg
[E566] indeno[1,2,3-cd]pyrene to air	14300 Ecopoints/kg
[E569] isoamyl isobutyrate to air	14300 Ecopoints/kg

[E570] isobutane to air	14300 Ecopoints/kg
[E571] isobutanol (2-methylpropanol-1) to air	14300 Ecopoints/kg
[E572] isobutene (2-methylpropene) to air	14300 Ecopoints/kg
[E573] isobutyl acetate to air	14300 Ecopoints/kg
[E574] isobutyl isobutyrate to air	14300 Ecopoints/kg
[E575] isobutyraldehyde to air	14300 Ecopoints/kg
[E576] isopentane to air	14300 Ecopoints/kg
[E577] isopentylacetate (iso-amylacetate) to air	14300 Ecopoints/kg
[E578] isoprene to air	14300 Ecopoints/kg
[E579] isopropanol to air	14300 Ecopoints/kg
[E580] isopropyl acetate to air	14300 Ecopoints/kg
[E581] isopropyl benzene (cumene) to air	14300 Ecopoints/kg
[E582] isopropyl propionate to air	14300 Ecopoints/kg
[E593] meta-Cresol (3-methylphenol) to air	14300 Ecopoints/kg
[E594] meta-Ethyltoluene to air	14300 Ecopoints/kg
[E596] meta-Xylene (1,3-dimethylbenzene) to air	14300 Ecopoints/kg
[E599] Methacrolein to air	14300 Ecopoints/kg
[E600] Methane to air	2100 Ecopoints/kg
[E602] Methanol to air	14300 Ecopoints/kg
[E604] Methyl Acetate to air	14300 Ecopoints/kg
[E606] Methyl Acrylate to air	14300 Ecopoints/kg
[E607] methyl amine to air	14300 Ecopoints/kg
[E608] Methyl Bromide to air	14300 Ecopoints/kg
[E609] Methyl Choride to air	14300 Ecopoints/kg
[E610] Methyl cyclohexane to air	14300 Ecopoints/kg
[E611] Methyl cyclopentane to air	14300 Ecopoints/kg
[E612] methyl dithiomethane to air	14300 Ecopoints/kg
[E613] Methyl Ethyl Ketone to air	14300 Ecopoints/kg
[E614] Methyl Formate to air	14300 Ecopoints/kg
[E615] Methyl Glyoxal to air	14300 Ecopoints/kg
[E616] Methyl Isobutyl Ketone (4-methylpentanon-2) to air	14300 Ecopoints/kg
[E617] Methyl iso-butyrate to air	14300 Ecopoints/kg
[E618] methyl methacrylate to air	14300 Ecopoints/kg
[E619] Methyl Naphthalenes to air	14300 Ecopoints/kg
[E620] Methyl Nitrite to air	14300 Ecopoints/kg
[E621] methyl propionate to air	14300 Ecopoints/kg
[E622] Methyl propyl Ketone to air	14300 Ecopoints/kg
[E623] methyl thiomethane (dimethylsulfide) to air	14300 Ecopoints/kg
[E624] Methyl trans-Butyl Ether to air	14300 Ecopoints/kg
[E625] Methyl-Isopropylketone to air	14300 Ecopoints/kg
[E626] methyl-mercury to air	14300 Ecopoints/kg
[E627] Methyl-transbutylketone to air	14300 Ecopoints/kg
[E633] Naphtalene to air	14300 Ecopoints/kg
[E634] Neopentane to air	14300 Ecopoints/kg
[E639] Nitrobenzene to air	14300 Ecopoints/kg
[E641] nitrogen dioxide to air	42300 Ecopoints/kg
[E643] nitrogen oxides to air	42300 Ecopoints/kg
[E645] Octyl Cyclohexane to air	14300 Ecopoints/kg
[E647] organics acids (unspec.) to air	14300 Ecopoints/kg
[E648] ortho-Cresol (2-methylphenol) to air	14300 Ecopoints/kg
[E649] ortho-Ethyltoluene to air	14300 Ecopoints/kg
[E650] ortho-Xylene (1,2-dimethylbenzene) to air	14300 Ecopoints/kg
[E653] para-Cresol (4-methylphenol) to air	14300 Ecopoints/kg
[E654] para-Ethyltoluene to air	14300 Ecopoints/kg
[E657] para-Trifluoromethyl-Cl-Benzene to air	14300 Ecopoints/kg
[E658] para-Xylene (1,4-dimethylbenzene) to air	14300 Ecopoints/kg
[E660] pentachlorobenzene to air	14300 Ecopoints/kg
[E661] pentachloronitrobenzene to air	14300 Ecopoints/kg
[E662] pentachlorophenol to air	14300 Ecopoints/kg
[E663] Pentanaldehyde to air	14300 Ecopoints/kg
[E664] Pentanol to air	14300 Ecopoints/kg
[E665] Perfluorobutane to air	4.50E+06 Ecopoints/kg
[E666] Perfluorocyclobutane to air	4.50E+06 Ecopoints/kg
[E667] Perfluoroethane (CFC-116) to air	4.50E+06 Ecopoints/kg
[E668] Perfluorohexane to air	4.50E+06 Ecopoints/kg
[E669] Perfluoromethane (CFC-14) to air	4.50E+06 Ecopoints/kg
[E670] Perfluoropentane to air	4.50E+06 Ecopoints/kg

[E671] Perfluoropropane to air	4.50E+06 Ecopoints/kg
[E673] petrol to air	14300 Ecopoints/kg
[E674] phenanthrene to air	14300 Ecopoints/kg
[E675] Phenol to air	14300 Ecopoints/kg
[E680] Phtalic anhydride to air	14300 Ecopoints/kg
[E681] phthalates to air	14300 Ecopoints/kg
[E684] Polycyclic Aromatic Hydrocarbons (PAH) (unspecified) to air	14300 Ecopoints/kg
[E685] Polycyclic Aromatic Hydrocarbons Carcinogenic- (carcinogenic-PAH) to air	14300 Ecopoints/kg
[E687] Propane to air	14300 Ecopoints/kg
[E688] Propanoic acid (propionic acid) to air	14300 Ecopoints/kg
[E689] Propionaldehyde (propanal) to air	14300 Ecopoints/kg
[E691] Propyl Acetate to air	14300 Ecopoints/kg
[E692] Propyl Cyclopentane to air	14300 Ecopoints/kg
[E693] Propylene to air	14300 Ecopoints/kg
[E694] Propylene Carbonate to air	14300 Ecopoints/kg
[E695] Propylene Glycol to air	14300 Ecopoints/kg
[E696] Propylene Glycol Methyl Ether Acetate to air	14300 Ecopoints/kg
[E697] Propylene Oxide to air	14300 Ecopoints/kg
[E700] Sabinene to air	14300 Ecopoints/kg
[E701] sec-Butanol to air	14300 Ecopoints/kg
[E702] sec-Butyl Benzene to air	14300 Ecopoints/kg
[E703] sec-Buytl Acetate to air	14300 Ecopoints/kg
[E706] styrene (vinylbenzene) to air	14300 Ecopoints/kg
[E707] Subst. C7 Ester (C12) to air	14300 Ecopoints/kg
[E708] Sucts. C9 Ester (C12) to air	14300 Ecopoints/kg
[E709] sulphur dioxide to air	23000 Ecopoints/kg
[E713] tar to air	14300 Ecopoints/kg
[E715] terpentine to air	14300 Ecopoints/kg
[E716] tertiary-Butanol to air	14300 Ecopoints/kg
[E717] tertiary-Butyl Acetate to air	14300 Ecopoints/kg
[E718] tetrachloroethylene (PER) (tetrachloroethene) to air	14300 Ecopoints/kg
[E719] Tetrachloromethane (carbon tetrachloride) (HC-10) to air	14300 Ecopoints/kg
[E720] tetrafluorethylene to air	14300 Ecopoints/kg
[E721] Tetralin to air	14300 Ecopoints/kg
[E726] Tolualdehyde to air	14300 Ecopoints/kg
[E727] Toluene to air	14300 Ecopoints/kg
[E728] trans-1,2-Dichloroethene to air	14300 Ecopoints/kg
[E729] trans-2-Butene to air	14300 Ecopoints/kg
[E730] trans-2-Hexene to air	14300 Ecopoints/kg
[E731] trans-2-Pentene to air	14300 Ecopoints/kg
[E732] trans-dichloroethene to air	14300 Ecopoints/kg
[E737] Trichloroethylene (tri) to air	14300 Ecopoints/kg
[E738] Trichloromethane (chloroform) to air	14300 Ecopoints/kg
[E742] Valeraldehyde (pentanal) to air	14300 Ecopoints/kg
[E744] Vinyl Acetate to air	14300 Ecopoints/kg
[E745] Vinyl Chloride (chloroethene) to air	14300 Ecopoints/kg
[E746] Volatile Organic Compounds (VOC) to air	14300 Ecopoints/kg
[E747] Volatile Organic Compounds non-methane- (non methane VOC) to air	14300 Ecopoints/kg
[E779] ammonia, ammonium to fresh water	10300 Ecopoints/kg
[E798] Biological Oxygen Demand (BOD) to fresh water	11500 Ecopoints/kg
[E809] Chemical oxigen demand (COD) to fresh water	3830 Ecopoints/kg
[E813] Chlorine to fresh water	26.2 Ecopoints/kg
[E894] Nitrate to fresh water	204 Ecopoints/kg
[E896] Nitrogen to fresh water	905 Ecopoints/kg
[E910] Phosphate to fresh water	2.47E+05 Ecopoints/kg
[E911] Phosphorus to fresh water	7.56E+05 Ecopoints/kg
[E924] sulphates to fresh water	76.6 Ecopoints/kg
[E973] ammonia, ammonium to sea water	10300 Ecopoints/kg
[E992] Biological Oxygen Demand (BOD) to sea water	11500 Ecopoints/kg
[E1003] Chemical oxigen demand (COD) to sea water	3830 Ecopoints/kg
[E1007] Chlorine to sea water	26.2 Ecopoints/kg
[E1088] Nitrate to sea water	204 Ecopoints/kg
[E1090] Nitrogen to sea water	905 Ecopoints/kg
[E1104] Phosphate to sea water	2.47E+05 Ecopoints/kg
[E1105] Phosphorus to sea water	7.56E+05 Ecopoints/kg
[E1118] sulphates to sea water	76.6 Ecopoints/kg

Category = [C18] Ecoscarcity Norway
Description = Distance to target approach, ecoscarcity in Norway
Author = Baumann et al, 1992
Date = 27-09-1999

Environmental resources

Environmental resource	Value	Unit

Environmental emissions

Environmental emission	Value	Unit
[E90] 1,1,1-trichloroethane (methyl chloroform; HC-140a) to air	9120	Ecopoints/kg
[E91] 1,1,2-Trichloroethane to air	9120	Ecopoints/kg
[E92] 1,1-Dichloroethane to air	9120	Ecopoints/kg
[E93] 1,1-Dichloroethene to air	9120	Ecopoints/kg
[E94] 1,2,3,4-tetrachlorobenzene to air	9120	Ecopoints/kg
[E95] 1,2,3,5-tetrachlorobenzene to air	9120	Ecopoints/kg
[E96] 1,2,3-trichlorobenzene to air	9120	Ecopoints/kg
[E97] 1,2,3-Trimethyl Benzene to air	9120	Ecopoints/kg
[E98] 1,2,4,5-tetrachlorobenzene to air	9120	Ecopoints/kg
[E99] 1,2,4-trichlorobenzene to air	9120	Ecopoints/kg
[E100] 1,2,4-trimethylbenzene to air	9120	Ecopoints/kg
[E101] 1,2-Butanediol to air	9120	Ecopoints/kg
[E102] 1,2-dichlorobenzene to air	9120	Ecopoints/kg
[E103] 1,2-dichloroethane to air	9120	Ecopoints/kg
[E104] 1,2-Dichloropropane to air	9120	Ecopoints/kg
[E105] 1,2-Dihydroxy Hexane to air	9120	Ecopoints/kg
[E106] 1,3 Diethyl-Cyclohexane to air	9120	Ecopoints/kg
[E107] 1,3,5-trichlorobenzene to air	9120	Ecopoints/kg
[E108] 1,3,5-Triethyl Cyclohex. to air	9120	Ecopoints/kg
[E109] 1,3,5-trimethylbenzene (mesitylene) to air	9120	Ecopoints/kg
[E110] 1,3,5-Tripropyl Cyclohex. to air	9120	Ecopoints/kg
[E111] 1,3-Butadiene to air	9120	Ecopoints/kg
[E112] 1,3-dichlorobenzene to air	9120	Ecopoints/kg
[E113] 1,3-Dimeth. Cyclopentane to air	9120	Ecopoints/kg
[E114] 1,3-Dimethyl Cyclohexane to air	9120	Ecopoints/kg
[E115] 1,3-Diprop-5-Eth Cyclohex. to air	9120	Ecopoints/kg
[E116] 1,4-dichlorobenzene to air	9120	Ecopoints/kg
[E117] 13-Dieth.-5-Pent Cyclohex. to air	9120	Ecopoints/kg
[E118] 13-Dieth-5-Me. Cyclohex. to air	9120	Ecopoints/kg
[E119] 1-Butane to air	9120	Ecopoints/kg
[E120] 1-Butanol to air	9120	Ecopoints/kg
[E121] 1-Butene to air	9120	Ecopoints/kg
[E122] 1-Butoxy Propanol to air	9120	Ecopoints/kg
[E123] 1-Butyl Acetate to air	9120	Ecopoints/kg
[E124] 1-Butyl Benzene to air	9120	Ecopoints/kg
[E125] 1-Butyl Bromide to air	9120	Ecopoints/kg
[E126] 1-butylpropionate to air	9120	Ecopoints/kg
[E127] 1-C16 to air	9120	Ecopoints/kg
[E128] 1-chloro-4-nitrobenzene to air	9120	Ecopoints/kg
[E129] 1-Chlorobutane to air	9120	Ecopoints/kg
[E130] 1-Decane to air	9120	Ecopoints/kg
[E131] 1-Dodecane to air	9120	Ecopoints/kg
[E132] 1-Eth.-4-Meth. Cyclohex to air	9120	Ecopoints/kg
[E133] 1-Ethoxy-2-Propanol to air	9120	Ecopoints/kg
[E134] 1-Heptane to air	9120	Ecopoints/kg
[E135] 1-Heptanol to air	9120	Ecopoints/kg
[E136] 1-Heptene to air	9120	Ecopoints/kg
[E137] 1-Hexane to air	9120	Ecopoints/kg
[E138] 1-Hexene to air	9120	Ecopoints/kg
[E139] 1-Methoxy-2-Propanol to air	9120	Ecopoints/kg
[E140] 1-Methyl-2-Pyrrolidone to air	9120	Ecopoints/kg
[E141] 1-Nonane to air	9120	Ecopoints/kg
[E142] 1-Nonene to air	9120	Ecopoints/kg
[E143] 1-Octane to air	9120	Ecopoints/kg
[E144] 1-Octanol to air	9120	Ecopoints/kg
[E145] 1-Octene to air	9120	Ecopoints/kg

[E146] 1-Pentadecane to air	9120 Ecopoints/kg
[E147] 1-Pentane to air	9120 Ecopoints/kg
[E148] 1-Pentene to air	9120 Ecopoints/kg
[E149] 1-Propanol to air	9120 Ecopoints/kg
[E150] 1-Propyl Benzene to air	9120 Ecopoints/kg
[E151] 1-Propyl Bromide to air	9120 Ecopoints/kg
[E152] 1-Tetradecane to air	9120 Ecopoints/kg
[E153] 1-Tridecane to air	9120 Ecopoints/kg
[E154] 1-Undecane to air	9120 Ecopoints/kg
[E155] 2- Octanol to air	9120 Ecopoints/kg
[E156] 2-(2-Butoxyethoxy)-Ethanol to air	9120 Ecopoints/kg
[E157] 2-(2-Ethoxyethoxy)-Ethanol to air	9120 Ecopoints/kg
[E158] 2-(Cl-methyl)-3-Cl-Propene to air	9120 Ecopoints/kg
[E159] 2,2,3 Trimethyl Butane to air	9120 Ecopoints/kg
[E160] 2,2,3,3-Tetramethyl Butane to air	9120 Ecopoints/kg
[E161] 2,2,4-Trimethyl Pentane to air	9120 Ecopoints/kg
[E162] 2,2,5-Trimethyl Hexane to air	9120 Ecopoints/kg
[E163] 2,2-Dimethylbutane to air	9120 Ecopoints/kg
[E164] 2,3 Dimethyl Pentane to air	9120 Ecopoints/kg
[E165] 2,3,3-Trimehyl-1-butene to air	9120 Ecopoints/kg
[E166] 2,3,4,6-tetrachlorophenol to air	9120 Ecopoints/kg
[E167] 2,3,4-Trimethyl Pentane to air	9120 Ecopoints/kg
[E168] 2,3,7,8-TCDD (tetrachloride-dibenzo-dioxin) to air	9120 Ecopoints/kg
[E169] 2,3-Dimethyl Hexane to air	9120 Ecopoints/kg
[E170] 2,3-Dimethyl Naptht. to air	9120 Ecopoints/kg
[E171] 2,3-Dimethyl-2-Butene to air	9120 Ecopoints/kg
[E173] 2,4,5-trichlorophenol to air	9120 Ecopoints/kg
[E174] 2,4,6-trichlorophenol to air	9120 Ecopoints/kg
[E176] 2,4-dichlorophenol to air	9120 Ecopoints/kg
[E177] 2,4-Dimethyl Heptane to air	9120 Ecopoints/kg
[E178] 2,4-Dimethyl Hexane to air	9120 Ecopoints/kg
[E179] 2,4-Dimethyl Pentane to air	9120 Ecopoints/kg
[E180] 2,5-Dimethyl Hexane to air	9120 Ecopoints/kg
[E181] 2,6 Diethyl Octane to air	9120 Ecopoints/kg
[E182] 2.3- Dimethylbutane to air	9120 Ecopoints/kg
[E183] 2-Butoxy-Ethanol to air	9120 Ecopoints/kg
[E184] 2-Butyltetrahydrofuran to air	9120 Ecopoints/kg
[E185] 2-chlorophenol to air	9120 Ecopoints/kg
[E186] 2-Ethoxy-Ethanol to air	9120 Ecopoints/kg
[E187] 2-Ethoxyethyl Acetate to air	9120 Ecopoints/kg
[E188] 2-Ethyl-1-Hexanol to air	9120 Ecopoints/kg
[E190] 2-Heptenes to air	9120 Ecopoints/kg
[E191] 2-Hexenes to air	9120 Ecopoints/kg
[E192] 2-Methoxy-Ethanol to air	9120 Ecopoints/kg
[E193] 2-Methyl-1-Butene to air	9120 Ecopoints/kg
[E194] 2-Methyl-1-Pentene to air	9120 Ecopoints/kg
[E195] 2-Methyl-2-Butene to air	9120 Ecopoints/kg
[E196] 2-Methyl-2-Pentene to air	9120 Ecopoints/kg
[E197] 2-Methylbutan-1-ol to air	9120 Ecopoints/kg
[E198] 2-Methylbutan-2-ol to air	9120 Ecopoints/kg
[E199] 2-Methylheptane to air	9120 Ecopoints/kg
[E200] 2-Methylhexane to air	9120 Ecopoints/kg
[E201] 2-Methylnonane to air	9120 Ecopoints/kg
[E202] 2-Methyloctane to air	9120 Ecopoints/kg
[E203] 2-Methylpentane to air	9120 Ecopoints/kg
[E204] 2-methylpropanoic acid (isobutyric acid) to air	9120 Ecopoints/kg
[E205] 2-Pentenes to air	9120 Ecopoints/kg
[E206] 3- Octanol to air	9120 Ecopoints/kg
[E207] 3-(Chloromethyl)-Heptane to air	9120 Ecopoints/kg
[E208] 3,4-dichloroaniline to air	9120 Ecopoints/kg
[E209] 3,4-Propyl Heptane to air	9120 Ecopoints/kg
[E210] 3,5 Diethyl Heptane to air	9120 Ecopoints/kg
[E211] 3,5-Diethyltoluene to air	9120 Ecopoints/kg
[E212] 3,5-Dimethylethylbenzene to air	9120 Ecopoints/kg
[E213] 3,7-Diethyl Nonane to air	9120 Ecopoints/kg
[E214] 3,8 Diethyl Decane to air	9120 Ecopoints/kg
[E215] 3,9-Diethyl Undecane to air	9120 Ecopoints/kg

[E216] 3-Carene to air	9120 Ecopoints/kg
[E217] 3-chloroaniline to air	9120 Ecopoints/kg
[E218] 3-Methyl-1-Butene to air	9120 Ecopoints/kg
[E219] 3-Methylbutan-1-ol to air	9120 Ecopoints/kg
[E220] 3-Methylbutan-2-ol to air	9120 Ecopoints/kg
[E221] 3-methylbutanoic acid (isovaleric acid) to air	9120 Ecopoints/kg
[E222] 3-Methylheptane to air	9120 Ecopoints/kg
[E223] 3-Methylhexane to air	9120 Ecopoints/kg
[E224] 3-Methylpentane to air	9120 Ecopoints/kg
[E225] 3-Nonenes to air	9120 Ecopoints/kg
[E226] 3-Octenes to air	9120 Ecopoints/kg
[E227] 3-Pentanol to air	9120 Ecopoints/kg
[E228] 4-chloroaniline to air	9120 Ecopoints/kg
[E229] 4-Ethyl Heptane to air	9120 Ecopoints/kg
[E230] 4-Methylheptane to air	9120 Ecopoints/kg
[E232] Acetaldehyde (ethanal) to air	9120 Ecopoints/kg
[E233] Acetic acid to air	9120 Ecopoints/kg
[E234] Acetone (2-propanon) to air	9120 Ecopoints/kg
[E235] Acetylene to air	9120 Ecopoints/kg
[E236] Acrolein (2-propenal) to air	9120 Ecopoints/kg
[E237] Acrylonitrile to air	9120 Ecopoints/kg
[E239] alcohols (unspec.) to air	9120 Ecopoints/kg
[E240] aldehydes (unspec.) to air	9120 Ecopoints/kg
[E243] alkanes (unspec.) to air	9120 Ecopoints/kg
[E244] alkenes (unspec.) to air	9120 Ecopoints/kg
[E245] Alkyl Phenols to air	9120 Ecopoints/kg
[E246] Allyl chloride to air	9120 Ecopoints/kg
[E247] Alpha Methyl Tetrahydrofuran to air	9120 Ecopoints/kg
[E248] alpha-Methyl Styrene to air	9120 Ecopoints/kg
[E249] alpha-Pinene to air	9120 Ecopoints/kg
[E252] anthracene to air	9.80E+06 Ecopoints/kg
[E254] aromatics (unspecified) to air	9120 Ecopoints/kg
[E262] Benzaldehyde to air	9120 Ecopoints/kg
[E263] Benzene to air	9120 Ecopoints/kg
[E264] benzo[a]anthracene to air	9.80E+06 Ecopoints/kg
[E265] benzo[a]pyrene to air	9.80E+06 Ecopoints/kg
[E266] benzo[ghi]perylene to air	9.80E+06 Ecopoints/kg
[E267] benzo[k]fluoranthrene to air	9.80E+06 Ecopoints/kg
[E268] Benzotrifluoride to air	9120 Ecopoints/kg
[E271] Beta-Pinene to air	9120 Ecopoints/kg
[E273] Branched C10 Alkanes to air	9120 Ecopoints/kg
[E274] Branched C11 Alkanes to air	9120 Ecopoints/kg
[E275] Branched C12 Alkanes to air	9120 Ecopoints/kg
[E276] Branched C13 Alkanes to air	9120 Ecopoints/kg
[E277] Branched C14 Alkanes to air	9120 Ecopoints/kg
[E278] Branched C15 Alkanes to air	9120 Ecopoints/kg
[E279] Branched C16 Alkanes to air	9120 Ecopoints/kg
[E280] Branched C17 Alkanes to air	9120 Ecopoints/kg
[E281] Branched C18 Alkanes to air	9120 Ecopoints/kg
[E282] Branched C5 Alkanes to air	9120 Ecopoints/kg
[E283] Branched C6 Alkanes to air	9120 Ecopoints/kg
[E284] Branched C7 Alkanes to air	9120 Ecopoints/kg
[E285] Branched C8 Alkanes to air	9120 Ecopoints/kg
[E286] Branched C9 Alkanes to air	9120 Ecopoints/kg
[E287] butane (unspec.) to air	9120 Ecopoints/kg
[E288] butanoic acid (butyric acid) to air	9120 Ecopoints/kg
[E289] butylacrylate to air	9120 Ecopoints/kg
[E290] Butylbenzylphtalate to air	9120 Ecopoints/kg
[E291] Butyraldehyde (butanal) to air	9120 Ecopoints/kg
[E292] C10 3-Alkenes to air	9120 Ecopoints/kg
[E293] C10 Bicycloalkanes to air	9120 Ecopoints/kg
[E294] C10 Cyclic Ketones to air	9120 Ecopoints/kg
[E295] C10 Cyclic or di-olefins to air	9120 Ecopoints/kg
[E296] C10 Cycloalkanes to air	9120 Ecopoints/kg
[E297] C10 Disub. Benzenes to air	9120 Ecopoints/kg
[E298] C10 Internal Alkenes to air	9120 Ecopoints/kg
[E299] C10 Ketones to air	9120 Ecopoints/kg

[E300] C10 Monosub. Benzenes to air	9120 Ecopoints/kg
[E301] C10 Styrenes to air	9120 Ecopoints/kg
[E302] C10 Tetrasub. Benzenes to air	9120 Ecopoints/kg
[E303] C10 Trisub. Benzenes to air	9120 Ecopoints/kg
[E304] C11 3-Alkenes to air	9120 Ecopoints/kg
[E305] C11 Bicycloalkanes to air	9120 Ecopoints/kg
[E306] C11 Cyclic or di-olefins to air	9120 Ecopoints/kg
[E307] C11 Cycloalkanes to air	9120 Ecopoints/kg
[E308] C11 Disub. Benzenes to air	9120 Ecopoints/kg
[E309] C11 Internal Alkenes to air	9120 Ecopoints/kg
[E310] C11 Monosub. Benzenes to air	9120 Ecopoints/kg
[E311] C11 Pentasub. Benzenes to air	9120 Ecopoints/kg
[E312] C11 Pentasub. Benzenes to air	9120 Ecopoints/kg
[E313] C11 Tetralin or Indane to air	9120 Ecopoints/kg
[E314] C11 Tetrasub. Benzenes to air	9120 Ecopoints/kg
[E315] C11 Trisub. Benzenes to air	9120 Ecopoints/kg
[E316] C12 2-Alkenes to air	9120 Ecopoints/kg
[E317] C12 3-Alkenes to air	9120 Ecopoints/kg
[E318] C12 Bicycloalkanes to air	9120 Ecopoints/kg
[E319] C12 Cyclic or di-olefins to air	9120 Ecopoints/kg
[E320] C12 Cycloalkanes to air	9120 Ecopoints/kg
[E321] C12 Disub. Benzenes to air	9120 Ecopoints/kg
[E322] C12 Disub. Naphthalenes to air	9120 Ecopoints/kg
[E323] C12 Hexaasub. Benzenes to air	9120 Ecopoints/kg
[E324] C12 Internal Alkenes to air	9120 Ecopoints/kg
[E325] C12 Monosub. Benzenes to air	9120 Ecopoints/kg
[E326] C12 Monosub. Naphth. to air	9120 Ecopoints/kg
[E327] C12 Tetrasub. Benzenes to air	9120 Ecopoints/kg
[E328] C12 Trisub. Benzenes to air	9120 Ecopoints/kg
[E329] C13 3-Alkenes to air	9120 Ecopoints/kg
[E330] C13 Bicycloalkanes to air	9120 Ecopoints/kg
[E331] C13 Cyclic or di-olefins to air	9120 Ecopoints/kg
[E332] C13 Cycloalkanes to air	9120 Ecopoints/kg
[E333] C13 Disub. Benzenes to air	9120 Ecopoints/kg
[E334] C13 Disub. Naphthalenes to air	9120 Ecopoints/kg
[E335] C13 Internal Alkenes to air	9120 Ecopoints/kg
[E336] C13 Monosub. Benzenes to air	9120 Ecopoints/kg
[E337] C13 Monosub. Naphth. to air	9120 Ecopoints/kg
[E338] C13 Trisub. Benzenes to air	9120 Ecopoints/kg
[E339] C13 Trisub. Naphthalenes to air	9120 Ecopoints/kg
[E340] C14 Bicycloalkanes to air	9120 Ecopoints/kg
[E341] C14 Cycloalkanes to air	9120 Ecopoints/kg
[E342] C15 Bicycloalkanes to air	9120 Ecopoints/kg
[E343] C15 Cycloalkanes to air	9120 Ecopoints/kg
[E344] C3 Adehydes to air	9120 Ecopoints/kg
[E345] C4 Aldehydes to air	9120 Ecopoints/kg
[E346] C4 Internal Alkenes to air	9120 Ecopoints/kg
[E347] C5 Adehydes to air	9120 Ecopoints/kg
[E348] C5 Cyclic Ketones to air	9120 Ecopoints/kg
[E349] C5 Internal Alkenes to air	9120 Ecopoints/kg
[E350] C5 Ketones to air	9120 Ecopoints/kg
[E351] C5 Terminal Alkenes to air	9120 Ecopoints/kg
[E352] C6 Adehydes to air	9120 Ecopoints/kg
[E353] C6 Cyclic Ketones to air	9120 Ecopoints/kg
[E354] C6 Cyclic or di-olefins to air	9120 Ecopoints/kg
[E355] C6 Cycloalkanes to air	9120 Ecopoints/kg
[E356] C6 Internal Alkenes to air	9120 Ecopoints/kg
[E357] C6 Ketones to air	9120 Ecopoints/kg
[E358] C6 Terminal Alkenes to air	9120 Ecopoints/kg
[E359] C7 Adehydes to air	9120 Ecopoints/kg
[E360] C7 Cyclic Ketones to air	9120 Ecopoints/kg
[E361] C7 Cyclic or di-olefins to air	9120 Ecopoints/kg
[E362] C7 Cycloalkanes to air	9120 Ecopoints/kg
[E363] C7 Internal Alkenes to air	9120 Ecopoints/kg
[E364] C7 Ketones to air	9120 Ecopoints/kg
[E365] C7 Terminal Alkenes to air	9120 Ecopoints/kg
[E366] C8 Aldehydes to air	9120 Ecopoints/kg

[E367] C8 Cyclic Ketones to air	9120 Ecopoints/kg
[E368] C8 Cyclic or di-olefins to air	9120 Ecopoints/kg
[E369] C8 Cycloalkanes to air	9120 Ecopoints/kg
[E370] C8 Disub. Benzenes to air	9120 Ecopoints/kg
[E371] C8 Internal Alkenes to air	9120 Ecopoints/kg
[E372] C8 Ketones to air	9120 Ecopoints/kg
[E373] C8 Terminal Alkenes to air	9120 Ecopoints/kg
[E374] C9 Bicycloalkanes to air	9120 Ecopoints/kg
[E375] C9 Cyclic Ketones to air	9120 Ecopoints/kg
[E376] C9 Cyclic or di-olefins to air	9120 Ecopoints/kg
[E377] C9 Cycloalkanes to air	9120 Ecopoints/kg
[E378] C9 Disub. Benzenes to air	9120 Ecopoints/kg
[E379] C9 Internal Alkenes to air	9120 Ecopoints/kg
[E380] C9 Ketones to air	9120 Ecopoints/kg
[E381] C9 Monosub. Benzenes to air	9120 Ecopoints/kg
[E382] C9 Styrenes to air	9120 Ecopoints/kg
[E383] C9 Terminal Alkenes to air	9120 Ecopoints/kg
[E384] C9 Trisub. Benzenes to air	9120 Ecopoints/kg
[E385] cadmium to air	4.79E+07 Ecopoints/kg
[E393] Carbon dioxide to air	44.6 Ecopoints/kg
[E396] CFC (hard) (unspecified) to air	1.61E+06 Ecopoints/kg
[E397] CFC (soft) (unspecified) to air	1.61E+06 Ecopoints/kg
[E398] CFC-11 to air	1.61E+06 Ecopoints/kg
[E399] CFC-113 to air	1.61E+06 Ecopoints/kg
[E400] CFC-114 to air	1.61E+06 Ecopoints/kg
[E401] CFC-115 to air	1.61E+06 Ecopoints/kg
[E402] CFC-12 to air	1.61E+06 Ecopoints/kg
[E403] CFC-13 to air	1.61E+06 Ecopoints/kg
[E407] chlorobenzene to air	9120 Ecopoints/kg
[E408] Chlorophenols (unspec.) to air	9120 Ecopoints/kg
[E409] Chloropicrin to air	9120 Ecopoints/kg
[E413] chromium (unspecified) to air	5.54E+06 Ecopoints/kg
[E414] chromium III to air	5.54E+06 Ecopoints/kg
[E415] chromium VI to air	5.54E+06 Ecopoints/kg
[E416] chrysene to air	9.80E+06 Ecopoints/kg
[E417] cis-2-Butene to air	9120 Ecopoints/kg
[E418] cis-2-Hexene to air	9120 Ecopoints/kg
[E419] cis-2-Pentene to air	9120 Ecopoints/kg
[E420] cis-Dichloroethene to air	9120 Ecopoints/kg
[E422] copper to air	6.37E+06 Ecopoints/kg
[E424] Crotonaldehyde to air	9120 Ecopoints/kg
[E426] Cyanides to air	9120 Ecopoints/kg
[E427] cyclic alkanes (unspec.) to air	9120 Ecopoints/kg
[E428] Cyclobutane to air	9120 Ecopoints/kg
[E429] Cyclohexane to air	9120 Ecopoints/kg
[E430] Cyclohexanol to air	9120 Ecopoints/kg
[E431] Cyclohexanone to air	9120 Ecopoints/kg
[E432] Cyclohexene to air	9120 Ecopoints/kg
[E433] Cyclopentadiene to air	9120 Ecopoints/kg
[E434] Cyclopentane to air	9120 Ecopoints/kg
[E435] Cyclopentene to air	9120 Ecopoints/kg
[E436] Cyclopropane to air	9120 Ecopoints/kg
[E444] Di(2-ethylhexyl)phtalate to air	9120 Ecopoints/kg
[E445] Diacetone alcohol to air	9120 Ecopoints/kg
[E447] Dibutyl Ether to air	9120 Ecopoints/kg
[E448] Dibutylphtalate to air	9120 Ecopoints/kg
[E449] Dichloromethane (Methylene Chloride) to air	9120 Ecopoints/kg
[E453] Diethyl Ether to air	9120 Ecopoints/kg
[E454] diethylamine to air	9120 Ecopoints/kg
[E455] Diethylketone to air	9120 Ecopoints/kg
[E456] Diethylphtalate to air	9120 Ecopoints/kg
[E457] Dihexylphtalate to air	9120 Ecopoints/kg
[E458] Diisodecylphtalate to air	9120 Ecopoints/kg
[E459] Diisooctylphtalate to air	9120 Ecopoints/kg
[E460] Diisopropylether to air	9120 Ecopoints/kg
[E462] Dimethyl Adipate to air	9120 Ecopoints/kg
[E463] Dimethyl Ether to air	9120 Ecopoints/kg

[E464] Dimethyl Glutarate to air	9120 Ecopoints/kg
[E465] Dimethyl Naphthalenes to air	9120 Ecopoints/kg
[E466] Dimethyl Succinate to air	9120 Ecopoints/kg
[E467] dimethylamine to air	9120 Ecopoints/kg
[E468] Dimethylphtalate to air	9120 Ecopoints/kg
[E469] Dinitrogen oxide (nitrous oxide) to air	58800 Ecopoints/kg
[E472] Dioctylphtalate to air	9120 Ecopoints/kg
[E473] dioxins (unspec.) to air	9120 Ecopoints/kg
[E474] diphenyl to air	9120 Ecopoints/kg
[E477] d-Limonene to air	9120 Ecopoints/kg
[E482] esters (unspec.) to air	9120 Ecopoints/kg
[E483] Ethane to air	9120 Ecopoints/kg
[E484] ethanethiol (ethylmercaptan) to air	9120 Ecopoints/kg
[E485] Ethanol to air	9120 Ecopoints/kg
[E486] ethers (unspec.) to air	9120 Ecopoints/kg
[E488] Ethyl Acetate to air	9120 Ecopoints/kg
[E489] Ethyl Acetylene to air	9120 Ecopoints/kg
[E490] Ethyl Acrylate to air	9120 Ecopoints/kg
[E491] Ethyl Amine to air	9120 Ecopoints/kg
[E492] Ethyl Chloride to air	9120 Ecopoints/kg
[E493] Ethyl Cyclopentane to air	9120 Ecopoints/kg
[E494] Ethyl Isopropyl Ether to air	9120 Ecopoints/kg
[E495] Ethyl- trans-Butyl Ether to air	9120 Ecopoints/kg
[E496] Ethylbenzene to air	9120 Ecopoints/kg
[E497] ethylbutyrate to air	9120 Ecopoints/kg
[E498] Ethylcyclohexane to air	9120 Ecopoints/kg
[E499] Ethylene (ethene) to air	9120 Ecopoints/kg
[E500] Ethylene Dibromide to air	9120 Ecopoints/kg
[E501] Ethylene Dichloride to air	9120 Ecopoints/kg
[E502] Ethylene Glycol to air	9120 Ecopoints/kg
[E503] ethylthioethane (diethylsulfide) to air	9120 Ecopoints/kg
[E509] fluoranthrene to air	9.80E+06 Ecopoints/kg
[E511] Formaldehyde (methanal) to air	9120 Ecopoints/kg
[E512] Formic acid to air	9120 Ecopoints/kg
[E513] Furan to air	9120 Ecopoints/kg
[E514] Furanes (unspec.) to air	9120 Ecopoints/kg
[E515] Glyoxal to air	9120 Ecopoints/kg
[E517] HALON (HBFC-2401) to air	9120 Ecopoints/kg
[E518] HALON-1201 (HBFC-1201) to air	9120 Ecopoints/kg
[E519] HALON-1202 to air	9120 Ecopoints/kg
[E520] HALON-1211 to air	9120 Ecopoints/kg
[E521] HALON-1301 to air	9120 Ecopoints/kg
[E522] HALON-2311 (HBFC-2311) to air	9120 Ecopoints/kg
[E523] HALON-2402 (Di-Broom-tetra-Fluor-ethane) to air	9120 Ecopoints/kg
[E524] halons (unspecified) to air	9120 Ecopoints/kg
[E525] HCFC-123 (1,1-Di-Chloro-222-Tri-Fluorethaan) to air	1.61E+06 Ecopoints/kg
[E526] HCFC-124 (1-Chloro-1222-Tetra-Fluor-Ethane) to air	1.61E+06 Ecopoints/kg
[E527] HCFC-141b (Dichlorofluorethane) to air	1.61E+06 Ecopoints/kg
[E528] HCFC-142b (1-Chloro-1,1-Difluorethane) to air	1.61E+06 Ecopoints/kg
[E529] HCFC-22 (Chlorodifluormethane) to air	1.61E+06 Ecopoints/kg
[E530] HCFC-225ca to air	1.61E+06 Ecopoints/kg
[E531] HCFC-225cb to air	1.61E+06 Ecopoints/kg
[E537] hexachlorobenzene to air	9120 Ecopoints/kg
[E541] Hexyl Cyclohexane to air	9120 Ecopoints/kg
[E542] HFC (unspec.) to air	9120 Ecopoints/kg
[E543] HFC-125 (Pentafluoroethane) to air	9120 Ecopoints/kg
[E544] HFC-134 (1,1,1,2-tetra-fluor-ethane) to air	9120 Ecopoints/kg
[E545] HFC-134a (1,1,1,2-tetrafluoroethane) to air	9120 Ecopoints/kg
[E546] HFC-143 to air	9120 Ecopoints/kg
[E547] HFC-143a (1,1,1-trifluoroethane) to air	9120 Ecopoints/kg
[E548] HFC-152a (1,1-difluoroethane) to air	9120 Ecopoints/kg
[E549] HFC-227ea to air	9120 Ecopoints/kg
[E550] HFC-23 to air	9120 Ecopoints/kg
[E551] HFC-236fa to air	9120 Ecopoints/kg
[E552] HFC-245ca to air	9120 Ecopoints/kg
[E553] HFC-32 to air	9120 Ecopoints/kg
[E554] HFC-41 to air	9120 Ecopoints/kg

[E555] HFC-43-10mee to air	9120 Ecopoints/kg
[E556] Hydrocarbons to air	9120 Ecopoints/kg
[E557] Hydrocarbons (excl. methane) to air	9120 Ecopoints/kg
[E558] Hydrocarbons Chloro-Fluor- (HCFC) to air	9120 Ecopoints/kg
[E559] Hydrocarbons haloginated to air	9120 Ecopoints/kg
[E561] hydrogen chloride to air	9190 Ecopoints/kg
[E562] hydrogen fluoride to air	3.30E+06 Ecopoints/kg
[E565] Indan to air	9120 Ecopoints/kg
[E566] indeno[1,2,3-cd]pyrene to air	9.80E+06 Ecopoints/kg
[E569] isoamyl isobutyrate to air	9120 Ecopoints/kg
[E570] isobutane to air	9120 Ecopoints/kg
[E571] isobutanol (2-methylpropanol-1) to air	9120 Ecopoints/kg
[E572] isobutene (2-methylpropene) to air	9120 Ecopoints/kg
[E573] isobutyl acetate to air	9120 Ecopoints/kg
[E574] isobutyl isobutyrate to air	9120 Ecopoints/kg
[E575] isobutyraldehyde to air	9120 Ecopoints/kg
[E576] isopentane to air	9120 Ecopoints/kg
[E577] isopentylacetate (iso-amylacetate) to air	9120 Ecopoints/kg
[E578] isoprene to air	9120 Ecopoints/kg
[E579] isopropanol to air	9120 Ecopoints/kg
[E580] isopropyl acetate to air	9120 Ecopoints/kg
[E581] isopropyl benzene (cumene) to air	9120 Ecopoints/kg
[E582] isopropyl propionate to air	9120 Ecopoints/kg
[E584] lead to air	1.57E+06 Ecopoints/kg
[E592] mercury to air	8.02E+08 Ecopoints/kg
[E593] meta-Cresol (3-methylphenol) to air	9120 Ecopoints/kg
[E594] meta-Ethyltoluene to air	9120 Ecopoints/kg
[E596] meta-Xylene (1,3-dimethylbenzene) to air	9120 Ecopoints/kg
[E599] Methacrolein to air	9120 Ecopoints/kg
[E600] Methane to air	9120 Ecopoints/kg
[E602] Methanol to air	9120 Ecopoints/kg
[E604] Methyl Acetate to air	9120 Ecopoints/kg
[E606] Methyl Acrylate to air	9120 Ecopoints/kg
[E607] methyl amine to air	9120 Ecopoints/kg
[E608] Methyl Bromide to air	9120 Ecopoints/kg
[E609] Methyl Choride to air	9120 Ecopoints/kg
[E610] Methyl cyclohexane to air	9120 Ecopoints/kg
[E611] Methyl cyclopentane to air	9120 Ecopoints/kg
[E612] methyl dithiomethane to air	9120 Ecopoints/kg
[E613] Methyl Ethyl Ketone to air	9120 Ecopoints/kg
[E614] Methyl Formate to air	9120 Ecopoints/kg
[E615] Methyl Glyoxal to air	9120 Ecopoints/kg
[E616] Methyl Isobutyl Ketone (4-methylpentanon-2) to air	9120 Ecopoints/kg
[E617] Methyl iso-butyrate to air	9120 Ecopoints/kg
[E618] methyl methacrylate to air	9120 Ecopoints/kg
[E619] Methyl Naphthalenes to air	9120 Ecopoints/kg
[E620] Methyl Nitrite to air	9120 Ecopoints/kg
[E621] methyl propionate to air	9120 Ecopoints/kg
[E622] Methyl propyl Ketone to air	9120 Ecopoints/kg
[E623] methyl thiomethane (dimethylsulfide) to air	9120 Ecopoints/kg
[E624] Methyl trans-Butyl Ether to air	9120 Ecopoints/kg
[E625] Methyl-Isopropylketone to air	9120 Ecopoints/kg
[E626] methyl-mercury to air	9120 Ecopoints/kg
[E627] Methyl-transbutylketone to air	9120 Ecopoints/kg
[E633] Naphtalene to air	9.80E+06 Ecopoints/kg
[E634] Neopentane to air	9120 Ecopoints/kg
[E635] nickel to air	2.00E+08 Ecopoints/kg
[E639] Nitrobenzene to air	9120 Ecopoints/kg
[E641] nitrogen dioxide to air	9190 Ecopoints/kg
[E643] nitrogen oxides to air	9190 Ecopoints/kg
[E645] Octyl Cyclohexane to air	9120 Ecopoints/kg
[E647] organics acids (unspec.) to air	9120 Ecopoints/kg
[E648] ortho-Cresol (2-methylphenol) to air	9120 Ecopoints/kg
[E649] ortho-Ethyltoluene to air	9120 Ecopoints/kg
[E650] ortho-Xylene (1,2-dimethylbenzene) to air	9120 Ecopoints/kg
[E653] para-Cresol (4-methylphenol) to air	9120 Ecopoints/kg
[E654] para-Ethyltoluene to air	9120 Ecopoints/kg

[E657] para-Trifluoromethyl-Cl-Benzene to air	9120 Ecopoints/kg
[E658] para-Xylene (1,4-dimethylbenzene) to air	9120 Ecopoints/kg
[E660] pentachlorobenzene to air	9120 Ecopoints/kg
[E661] pentachloronitrobenzene to air	9120 Ecopoints/kg
[E662] pentachlorophenol to air	9120 Ecopoints/kg
[E663] Pentanaldehyde to air	9120 Ecopoints/kg
[E664] Pentanol to air	9120 Ecopoints/kg
[E665] Perfluorobutane to air	1.61E+06 Ecopoints/kg
[E666] Perfluorocyclobutane to air	1.61E+06 Ecopoints/kg
[E667] Perfluoroethane (CFC-116) to air	1.61E+06 Ecopoints/kg
[E668] Perfluorohexane to air	1.61E+06 Ecopoints/kg
[E669] Perfluoromethane (CFC-14) to air	1.61E+06 Ecopoints/kg
[E670] Perfluoropentane to air	1.61E+06 Ecopoints/kg
[E671] Perfluoropropane to air	1.61E+06 Ecopoints/kg
[E673] petrol to air	9120 Ecopoints/kg
[E674] phenanthrene to air	9.80E+06 Ecopoints/kg
[E675] Phenol to air	9120 Ecopoints/kg
[E680] Phtalic anhydride to air	9120 Ecopoints/kg
[E681] phthalates to air	9120 Ecopoints/kg
[E684] Polycyclic Aromatic Hydrocarbons (PAH) (unspecified) to air	9.80E+06 Ecopoints/kg
[E685] Polycyclic Aromatic Hydrocarbons Carcinogenic- (carcinogenic-PAH) to air	9.80E+06 Ecopoints/kg
[E687] Propane to air	9120 Ecopoints/kg
[E688] Propanoic acid (propionic acid) to air	9120 Ecopoints/kg
[E689] Propionaldehyde (propanal) to air	9120 Ecopoints/kg
[E691] Propyl Acetate to air	9120 Ecopoints/kg
[E692] Propyl Cyclopentane to air	9120 Ecopoints/kg
[E693] Propylene to air	9120 Ecopoints/kg
[E694] Propylene Carbonate to air	9120 Ecopoints/kg
[E695] Propylene Glycol to air	9120 Ecopoints/kg
[E696] Propylene Glycol Methyl Ether Acetate to air	9120 Ecopoints/kg
[E697] Propylene Oxide to air	9120 Ecopoints/kg
[E700] Sabinene to air	9120 Ecopoints/kg
[E701] sec-Butanol to air	9120 Ecopoints/kg
[E702] sec-Butyl Benzene to air	9120 Ecopoints/kg
[E703] sec-Buytl Acetate to air	9120 Ecopoints/kg
[E706] styrene (vinylbenzene) to air	9120 Ecopoints/kg
[E707] Subst. C7 Ester (C12) to air	9120 Ecopoints/kg
[E708] Sucts. C9 Ester (C12) to air	9120 Ecopoints/kg
[E709] sulphur dioxide to air	10000 Ecopoints/kg
[E713] tar to air	9120 Ecopoints/kg
[E715] terpentine to air	9120 Ecopoints/kg
[E716] tertiary-Butanol to air	9120 Ecopoints/kg
[E717] tertiary-Butyl Acetate to air	9120 Ecopoints/kg
[E718] tetrachloroethylene (PER) (tetrachloroethene) to air	9120 Ecopoints/kg
[E719] Tetrachloromethane (carbon tetrachloride) (HC-10) to air	9120 Ecopoints/kg
[E720] tetrafluorethylene to air	9120 Ecopoints/kg
[E721] Tetralin to air	9120 Ecopoints/kg
[E726] Tolualdehyde to air	9120 Ecopoints/kg
[E727] Toluene to air	9120 Ecopoints/kg
[E728] trans-1,2-Dichloroethene to air	9120 Ecopoints/kg
[E729] trans-2-Butene to air	9120 Ecopoints/kg
[E730] trans-2-Hexene to air	9120 Ecopoints/kg
[E731] trans-2-Pentene to air	9120 Ecopoints/kg
[E732] trans-dichloroethene to air	9120 Ecopoints/kg
[E737] Trichloroethylene (tri) to air	9120 Ecopoints/kg
[E738] Trichloromethane (chloroform) to air	9120 Ecopoints/kg
[E742] Valeraldehyde (pentanal) to air	9120 Ecopoints/kg
[E744] Vinyl Acetate to air	9120 Ecopoints/kg
[E745] Vinyl Chloride (chloroethene) to air	9120 Ecopoints/kg
[E746] Volatile Organic Compounds (VOC) to air	9120 Ecopoints/kg
[E747] Volatile Organic Compounds non-methane- (non methane VOC) to air	9120 Ecopoints/kg
[E748] zinc to air	3.92E+05 Ecopoints/kg
[E779] ammonia, ammonium to fresh water	1.21E+05 Ecopoints/kg
[E798] Biological Oxygen Demand (BOD) to fresh water	11500 Ecopoints/kg
[E809] Chemical oxigen demand (COD) to fresh water	3830 Ecopoints/kg
[E813] Chlorine to fresh water	26.2 Ecopoints/kg
[E894] Nitrate to fresh water	27300 Ecopoints/kg

[E896] Nitrogen to fresh water	1.21E+05	Ecopoints/kg
[E910] Phosphate to fresh water	3.03E+05	Ecopoints/kg
[E911] Phosphorus to fresh water	9.30E+05	Ecopoints/kg
[E924] sulphates to fresh water	76.6	Ecopoints/kg
[E973] ammonia, ammonium to sea water	1.21E+05	Ecopoints/kg
[E992] Biological Oxygen Demand (BOD) to sea water	11500	Ecopoints/kg
[E1003] Chemical oxigen demand (COD) to sea water	3830	Ecopoints/kg
[E1007] Chlorine to sea water	26.2	Ecopoints/kg
[E1088] Nitrate to sea water	27300	Ecopoints/kg
[E1090] Nitrogen to sea water	1.21E+05	Ecopoints/kg
[E1104] Phosphate to sea water	3.03E+05	Ecopoints/kg
[E1105] Phosphorus to sea water	9.30E+05	Ecopoints/kg
[E1118] sulphates to sea water	76.6	Ecopoints/kg

Category = [C19] Photochemical oxidant formation (Ecoindicator95)
Description = Ecoindicator 95
Author = Goedkoop, 1995
Date = 27-09-1999

Environmental resources

Environmental resource	Value	Unit

Environmental emissions

Environmental emission	Value	Unit
[E90] 1,1,1-trichloroethane (methyl chloroform; HC-140a) to air	0.021	kg ethylene eq./kg
[E91] 1,1,2-Trichloroethane to air	0.021	kg ethylene eq./kg
[E92] 1,1-Dichloroethane to air	0.021	kg ethylene eq./kg
[E93] 1,1-Dichloroethene to air	0.021	kg ethylene eq./kg
[E94] 1,2,3,4-tetrachlorobenzene to air	0.761	kg ethylene eq./kg
[E95] 1,2,3,5-tetrachlorobenzene to air	0.761	kg ethylene eq./kg
[E96] 1,2,3-trichlorobenzene to air	0.761	kg ethylene eq./kg
[E97] 1,2,3-Trimethyl Benzene to air	0.761	kg ethylene eq./kg
[E98] 1,2,4,5-tetrachlorobenzene to air	0.761	kg ethylene eq./kg
[E99] 1,2,4-trichlorobenzene to air	0.761	kg ethylene eq./kg
[E100] 1,2,4-trimethylbenzene to air	0.761	kg ethylene eq./kg
[E101] 1,2-Butanediol to air	0.196	kg ethylene eq./kg
[E102] 1,2-dichlorobenzene to air	0.761	kg ethylene eq./kg
[E103] 1,2-dichloroethane to air	0.021	kg ethylene eq./kg
[E104] 1,2-Dichloropropane to air	0.021	kg ethylene eq./kg
[E105] 1,2-Dihydroxy Hexane to air	0.196	kg ethylene eq./kg
[E106] 1,3 Diethyl-Cyclohexane to air	0.398	kg ethylene eq./kg
[E107] 1,3,5-trichlorobenzene to air	0.761	kg ethylene eq./kg
[E108] 1,3,5-Triethyl Cyclohex. to air	0.398	kg ethylene eq./kg
[E109] 1,3,5-trimethylbenzene (mesitylene) to air	0.761	kg ethylene eq./kg
[E110] 1,3,5-Tripropyl Cyclohex. to air	0.398	kg ethylene eq./kg
[E111] 1,3-Butadiene to air	0.398	kg ethylene eq./kg
[E112] 1,3-dichlorobenzene to air	0.761	kg ethylene eq./kg
[E113] 1,3-Dimeth. Cyclopentane to air	0.398	kg ethylene eq./kg
[E114] 1,3-Dimethyl Cyclohexane to air	0.398	kg ethylene eq./kg
[E115] 1,3-Diprop-5-Eth Cyclohex. to air	0.398	kg ethylene eq./kg
[E116] 1,4-dichlorobenzene to air	0.761	kg ethylene eq./kg
[E117] 13-Dieth.-5-Pent Cyclohex. to air	0.398	kg ethylene eq./kg
[E118] 13-Dieth-5-Me. Cyclohex. to air	0.398	kg ethylene eq./kg
[E119] 1-Butane to air	0.398	kg ethylene eq./kg
[E120] 1-Butanol to air	0.196	kg ethylene eq./kg
[E121] 1-Butene to air	0.398	kg ethylene eq./kg
[E122] 1-Butoxy Propanol to air	0.196	kg ethylene eq./kg
[E123] 1-Butyl Acetate to air	0.398	kg ethylene eq./kg
[E124] 1-Butyl Benzene to air	0.761	kg ethylene eq./kg
[E125] 1-Butyl Bromide to air	0.021	kg ethylene eq./kg
[E126] 1-butylpropionate to air	0.398	kg ethylene eq./kg
[E127] 1-C16 to air	0.398	kg ethylene eq./kg
[E128] 1-chloro-4-nitrobenzene to air	0.761	kg ethylene eq./kg
[E129] 1-Chlorobutane to air	0.021	kg ethylene eq./kg
[E130] 1-Decane to air	0.398	kg ethylene eq./kg
[E131] 1-Dodecane to air	0.398	kg ethylene eq./kg

[E132] 1-Eth.-4-Meth. Cyclohex to air	0.398 kg ethylene eq./kg
[E133] 1-Ethoxy-2-Propanol to air	0.196 kg ethylene eq./kg
[E134] 1-Heptane to air	0.398 kg ethylene eq./kg
[E135] 1-Heptanol to air	0.196 kg ethylene eq./kg
[E136] 1-Heptene to air	0.398 kg ethylene eq./kg
[E137] 1-Hexane to air	0.398 kg ethylene eq./kg
[E138] 1-Hexene to air	0.398 kg ethylene eq./kg
[E139] 1-Methoxy-2-Propanol to air	0.196 kg ethylene eq./kg
[E140] 1-Methyl-2-Pyrrolidone to air	0.398 kg ethylene eq./kg
[E141] 1-Nonane to air	0.398 kg ethylene eq./kg
[E142] 1-Nonene to air	0.398 kg ethylene eq./kg
[E143] 1-Octane to air	0.398 kg ethylene eq./kg
[E144] 1-Octanol to air	0.196 kg ethylene eq./kg
[E145] 1-Octene to air	0.398 kg ethylene eq./kg
[E146] 1-Pentadecane to air	0.398 kg ethylene eq./kg
[E147] 1-Pentane to air	0.408 kg ethylene eq./kg
[E148] 1-Pentene to air	0.398 kg ethylene eq./kg
[E149] 1-Propanol to air	0.196 kg ethylene eq./kg
[E150] 1-Propyl Benzene to air	0.761 kg ethylene eq./kg
[E151] 1-Propyl Bromide to air	0.021 kg ethylene eq./kg
[E152] 1-Tetradecane to air	0.398 kg ethylene eq./kg
[E153] 1-Tridecane to air	0.398 kg ethylene eq./kg
[E154] 1-Undecane to air	0.398 kg ethylene eq./kg
[E155] 2- Octanol to air	0.196 kg ethylene eq./kg
[E156] 2-(2-Butoxyethoxy)-Ethanol to air	0.196 kg ethylene eq./kg
[E157] 2-(2-Ethoxyethoxy)-Ethanol to air	0.196 kg ethylene eq./kg
[E158] 2-(Cl-methyl)-3-Cl-Propene to air	0.021 kg ethylene eq./kg
[E159] 2,2,3 Trimethyl Butane to air	0.398 kg ethylene eq./kg
[E160] 2,2,3,3-Tetramethyl Butane to air	0.398 kg ethylene eq./kg
[E161] 2,2,4-Trimethyl Pentane to air	0.398 kg ethylene eq./kg
[E162] 2,2,5-Trimethyl Hexane to air	0.398 kg ethylene eq./kg
[E163] 2,2-Dimethylbutane to air	0.398 kg ethylene eq./kg
[E164] 2,3 Dimethyl Pentane to air	0.398 kg ethylene eq./kg
[E165] 2,3,3-Trimehyl-1-butene to air	0.398 kg ethylene eq./kg
[E166] 2,3,4,6-tetrachlorophenol to air	0.761 kg ethylene eq./kg
[E167] 2,3,4-Trimethyl Pentane to air	0.398 kg ethylene eq./kg
[E168] 2,3,7,8-TCDD (tetrachloride-dibenzo-dioxin) to air	0.021 kg ethylene eq./kg
[E169] 2,3-Dimethyl Hexane to air	0.398 kg ethylene eq./kg
[E170] 2,3-Dimethyl Naptht. to air	0.761 kg ethylene eq./kg
[E171] 2,3-Dimethyl-2-Butene to air	0.398 kg ethylene eq./kg
[E173] 2,4,5-trichlorophenol to air	0.761 kg ethylene eq./kg
[E174] 2,4,6-trichlorophenol to air	0.761 kg ethylene eq./kg
[E176] 2,4-dichlorophenol to air	0.761 kg ethylene eq./kg
[E177] 2,4-Dimethyl Heptane to air	0.398 kg ethylene eq./kg
[E178] 2,4-Dimethyl Hexane to air	0.398 kg ethylene eq./kg
[E179] 2,4-Dimethyl Pentane to air	0.398 kg ethylene eq./kg
[E180] 2,5-Dimethyl Hexane to air	0.398 kg ethylene eq./kg
[E181] 2,6 Diethyl Octane to air	0.398 kg ethylene eq./kg
[E182] 2.3- Dimethylbutane to air	0.398 kg ethylene eq./kg
[E183] 2-Butoxy-Ethanol to air	0.196 kg ethylene eq./kg
[E184] 2-Butyltetrahydrofuran to air	0.196 kg ethylene eq./kg
[E185] 2-chlorophenol to air	0.761 kg ethylene eq./kg
[E186] 2-Ethoxy-Ethanol to air	0.196 kg ethylene eq./kg
[E187] 2-Ethoxyethyl Acetate to air	0.398 kg ethylene eq./kg
[E188] 2-Ethyl-1-Hexanol to air	0.196 kg ethylene eq./kg
[E190] 2-Heptenes to air	0.398 kg ethylene eq./kg
[E191] 2-Hexenes to air	0.398 kg ethylene eq./kg
[E192] 2-Methoxy-Ethanol to air	0.196 kg ethylene eq./kg
[E193] 2-Methyl-1-Butene to air	0.398 kg ethylene eq./kg
[E194] 2-Methyl-1-Pentene to air	0.398 kg ethylene eq./kg
[E195] 2-Methyl-2-Butene to air	0.398 kg ethylene eq./kg
[E196] 2-Methyl-2-Pentene to air	0.398 kg ethylene eq./kg
[E197] 2-Methylbutan-1-ol to air	0.196 kg ethylene eq./kg
[E198] 2-Methylbutan-2-ol to air	0.196 kg ethylene eq./kg
[E199] 2-Methylheptane to air	0.398 kg ethylene eq./kg
[E200] 2-Methylhexane to air	0.398 kg ethylene eq./kg
[E201] 2-Methylnonane to air	0.398 kg ethylene eq./kg

[E202] 2-Methyloctane to air	0.398 kg ethylene eq./kg
[E203] 2-Methylpentane to air	0.398 kg ethylene eq./kg
[E204] 2-methylpropanoic acid (isobutyric acid) to air	0.398 kg ethylene eq./kg
[E205] 2-Pentenes to air	0.398 kg ethylene eq./kg
[E206] 3- Octanol to air	0.196 kg ethylene eq./kg
[E207] 3-(Chloromethyl)-Heptane to air	0.021 kg ethylene eq./kg
[E208] 3,4-dichloroaniline to air	0.021 kg ethylene eq./kg
[E209] 3,4-Propyl Heptane to air	0.398 kg ethylene eq./kg
[E210] 3,5 Diethyl Heptane to air	0.398 kg ethylene eq./kg
[E211] 3,5-Diethyltoluene to air	0.761 kg ethylene eq./kg
[E212] 3,5-Dimethylethylbenzene to air	0.761 kg ethylene eq./kg
[E213] 3,7-Diethyl Nonane to air	0.398 kg ethylene eq./kg
[E214] 3,8 Diethyl Decane to air	0.398 kg ethylene eq./kg
[E215] 3,9-Diethyl Undecane to air	0.398 kg ethylene eq./kg
[E216] 3-Carene to air	0.398 kg ethylene eq./kg
[E217] 3-chloroaniline to air	0.021 kg ethylene eq./kg
[E218] 3-Methyl-1-Butene to air	0.398 kg ethylene eq./kg
[E219] 3-Methylbutan-1-ol to air	0.196 kg ethylene eq./kg
[E220] 3-Methylbutan-2-ol to air	0.196 kg ethylene eq./kg
[E221] 3-methylbutanoic acid (isovaleric acid) to air	0.398 kg ethylene eq./kg
[E222] 3-Methylheptane to air	0.398 kg ethylene eq./kg
[E223] 3-Methylhexane to air	0.398 kg ethylene eq./kg
[E224] 3-Methylpentane to air	0.398 kg ethylene eq./kg
[E225] 3-Nonenes to air	0.398 kg ethylene eq./kg
[E226] 3-Octenes to air	0.398 kg ethylene eq./kg
[E227] 3-Pentanol to air	0.196 kg ethylene eq./kg
[E228] 4-chloroaniline to air	0.021 kg ethylene eq./kg
[E229] 4-Ethyl Heptane to air	0.398 kg ethylene eq./kg
[E230] 4-Methylheptane to air	0.398 kg ethylene eq./kg
[E232] Acetaldehyde (ethanal) to air	0.443 kg ethylene eq./kg
[E233] Acetic acid to air	0.398 kg ethylene eq./kg
[E234] Acetone (2-propanon) to air	0.178 kg ethylene eq./kg
[E235] Acetylene to air	0.168 kg ethylene eq./kg
[E236] Acrolein (2-propenal) to air	0.443 kg ethylene eq./kg
[E237] Acrylonitrile to air	0.398 kg ethylene eq./kg
[E239] alcohols (unspec.) to air	0.196 kg ethylene eq./kg
[E240] aldehydes (unspec.) to air	0.443 kg ethylene eq./kg
[E243] alkanes (unspec.) to air	0.398 kg ethylene eq./kg
[E244] alkenes (unspec.) to air	0.398 kg ethylene eq./kg
[E245] Alkyl Phenols to air	0.761 kg ethylene eq./kg
[E246] Allyl chloride to air	0.021 kg ethylene eq./kg
[E247] Alpha Methyl Tetrahydrofuran to air	0.196 kg ethylene eq./kg
[E248] alpha-Methyl Styrene to air	0.761 kg ethylene eq./kg
[E249] alpha-Pinene to air	0.398 kg ethylene eq./kg
[E252] anthracene to air	0.761 kg ethylene eq./kg
[E254] aromatics (unspecified) to air	0.761 kg ethylene eq./kg
[E262] Benzaldehyde to air	0.443 kg ethylene eq./kg
[E263] Benzene to air	0.189 kg ethylene eq./kg
[E264] benzo[a]anthracene to air	0.761 kg ethylene eq./kg
[E265] benzo[a]pyrene to air	0.761 kg ethylene eq./kg
[E266] benzo[ghi]perylene to air	0.761 kg ethylene eq./kg
[E267] benzo[k]fluoranthrene to air	0.761 kg ethylene eq./kg
[E268] Benzotrifluoride to air	0.021 kg ethylene eq./kg
[E271] Beta-Pinene to air	0.398 kg ethylene eq./kg
[E273] Branched C10 Alkanes to air	0.398 kg ethylene eq./kg
[E274] Branched C11 Alkanes to air	0.398 kg ethylene eq./kg
[E275] Branched C12 Alkanes to air	0.398 kg ethylene eq./kg
[E276] Branched C13 Alkanes to air	0.398 kg ethylene eq./kg
[E277] Branched C14 Alkanes to air	0.398 kg ethylene eq./kg
[E278] Branched C15 Alkanes to air	0.398 kg ethylene eq./kg
[E279] Branched C16 Alkanes to air	0.398 kg ethylene eq./kg
[E280] Branched C17 Alkanes to air	0.398 kg ethylene eq./kg
[E281] Branched C18 Alkanes to air	0.398 kg ethylene eq./kg
[E282] Branched C5 Alkanes to air	0.398 kg ethylene eq./kg
[E283] Branched C6 Alkanes to air	0.398 kg ethylene eq./kg
[E284] Branched C7 Alkanes to air	0.398 kg ethylene eq./kg
[E285] Branched C8 Alkanes to air	0.398 kg ethylene eq./kg

[E286] Branched C9 Alkanes to air	0.398 kg ethylene eq./kg
[E287] butane (unspec.) to air	0.398 kg ethylene eq./kg
[E288] butanoic acid (butyric acid) to air	0.398 kg ethylene eq./kg
[E289] butylacrylate to air	0.398 kg ethylene eq./kg
[E290] Butylbenzylphtalate to air	0.761 kg ethylene eq./kg
[E291] Butyraldehyde (butanal) to air	0.443 kg ethylene eq./kg
[E292] C10 3-Alkenes to air	0.398 kg ethylene eq./kg
[E293] C10 Bicycloalkanes to air	0.398 kg ethylene eq./kg
[E294] C10 Cyclic Ketones to air	0.326 kg ethylene eq./kg
[E295] C10 Cyclic or di-olefins to air	0.398 kg ethylene eq./kg
[E296] C10 Cycloalkanes to air	0.398 kg ethylene eq./kg
[E297] C10 Disub. Benzenes to air	0.761 kg ethylene eq./kg
[E298] C10 Internal Alkenes to air	0.398 kg ethylene eq./kg
[E299] C10 Ketones to air	0.326 kg ethylene eq./kg
[E300] C10 Monosub. Benzenes to air	0.761 kg ethylene eq./kg
[E301] C10 Styrenes to air	0.761 kg ethylene eq./kg
[E302] C10 Tetrasub. Benzenes to air	0.761 kg ethylene eq./kg
[E303] C10 Trisub. Benzenes to air	0.761 kg ethylene eq./kg
[E304] C11 3-Alkenes to air	0.398 kg ethylene eq./kg
[E305] C11 Bicycloalkanes to air	0.398 kg ethylene eq./kg
[E306] C11 Cyclic or di-olefins to air	0.398 kg ethylene eq./kg
[E307] C11 Cycloalkanes to air	0.398 kg ethylene eq./kg
[E308] C11 Disub. Benzenes to air	0.761 kg ethylene eq./kg
[E309] C11 Internal Alkenes to air	0.398 kg ethylene eq./kg
[E310] C11 Monosub. Benzenes to air	0.761 kg ethylene eq./kg
[E311] C11 Pentasub. Benzenes to air	0.761 kg ethylene eq./kg
[E312] C11 Pentasub. Benzenes to air	0.761 kg ethylene eq./kg
[E313] C11 Tetralin or Indane to air	0.761 kg ethylene eq./kg
[E314] C11 Tetrasub. Benzenes to air	0.761 kg ethylene eq./kg
[E315] C11 Trisub. Benzenes to air	0.761 kg ethylene eq./kg
[E316] C12 2-Alkenes to air	0.398 kg ethylene eq./kg
[E317] C12 3-Alkenes to air	0.398 kg ethylene eq./kg
[E318] C12 Bicycloalkanes to air	0.398 kg ethylene eq./kg
[E319] C12 Cyclic or di-olefins to air	0.398 kg ethylene eq./kg
[E320] C12 Cycloalkanes to air	0.398 kg ethylene eq./kg
[E321] C12 Disub. Benzenes to air	0.761 kg ethylene eq./kg
[E322] C12 Disub. Naphthalenes to air	0.761 kg ethylene eq./kg
[E323] C12 Hexaasub. Benzenes to air	0.761 kg ethylene eq./kg
[E324] C12 Internal Alkenes to air	0.398 kg ethylene eq./kg
[E325] C12 Monosub. Benzenes to air	0.761 kg ethylene eq./kg
[E326] C12 Monosub. Naphth. to air	0.761 kg ethylene eq./kg
[E327] C12 Tetrasub. Benzenes to air	0.761 kg ethylene eq./kg
[E328] C12 Trisub. Benzenes to air	0.761 kg ethylene eq./kg
[E329] C13 3-Alkenes to air	0.398 kg ethylene eq./kg
[E330] C13 Bicycloalkanes to air	0.398 kg ethylene eq./kg
[E331] C13 Cyclic or di-olefins to air	0.398 kg ethylene eq./kg
[E332] C13 Cycloalkanes to air	0.398 kg ethylene eq./kg
[E333] C13 Disub. Benzenes to air	0.761 kg ethylene eq./kg
[E334] C13 Disub. Naphthalenes to air	0.761 kg ethylene eq./kg
[E335] C13 Internal Alkenes to air	0.398 kg ethylene eq./kg
[E336] C13 Monosub. Benzenes to air	0.761 kg ethylene eq./kg
[E337] C13 Monosub. Naphth. to air	0.761 kg ethylene eq./kg
[E338] C13 Trisub. Benzenes to air	0.761 kg ethylene eq./kg
[E339] C13 Trisub. Naphthalenes to air	0.761 kg ethylene eq./kg
[E340] C14 Bicycloalkanes to air	0.398 kg ethylene eq./kg
[E341] C14 Cycloalkanes to air	0.398 kg ethylene eq./kg
[E342] C15 Bicycloalkanes to air	0.398 kg ethylene eq./kg
[E343] C15 Cycloalkanes to air	0.398 kg ethylene eq./kg
[E344] C3 Adehydes to air	0.443 kg ethylene eq./kg
[E345] C4 Aldehydes to air	0.443 kg ethylene eq./kg
[E346] C4 Internal Alkenes to air	0.398 kg ethylene eq./kg
[E347] C5 Adehydes to air	0.443 kg ethylene eq./kg
[E348] C5 Cyclic Ketones to air	0.326 kg ethylene eq./kg
[E349] C5 Internal Alkenes to air	0.398 kg ethylene eq./kg
[E350] C5 Ketones to air	0.326 kg ethylene eq./kg
[E351] C5 Terminal Alkenes to air	0.398 kg ethylene eq./kg
[E352] C6 Adehydes to air	0.443 kg ethylene eq./kg

[E353] C6 Cyclic Ketones to air	0.326 kg ethylene eq./kg
[E354] C6 Cyclic or di-olefins to air	0.398 kg ethylene eq./kg
[E355] C6 Cycloalkanes to air	0.398 kg ethylene eq./kg
[E356] C6 Internal Alkenes to air	0.398 kg ethylene eq./kg
[E357] C6 Ketones to air	0.326 kg ethylene eq./kg
[E358] C6 Terminal Alkenes to air	0.398 kg ethylene eq./kg
[E359] C7 Adehydes to air	0.443 kg ethylene eq./kg
[E360] C7 Cyclic Ketones to air	0.326 kg ethylene eq./kg
[E361] C7 Cyclic or di-olefins to air	0.398 kg ethylene eq./kg
[E362] C7 Cycloalkanes to air	0.398 kg ethylene eq./kg
[E363] C7 Internal Alkenes to air	0.398 kg ethylene eq./kg
[E364] C7 Ketones to air	0.326 kg ethylene eq./kg
[E365] C7 Terminal Alkenes to air	0.398 kg ethylene eq./kg
[E366] C8 Aldehydes to air	0.443 kg ethylene eq./kg
[E367] C8 Cyclic Ketones to air	0.326 kg ethylene eq./kg
[E368] C8 Cyclic or di-olefins to air	0.398 kg ethylene eq./kg
[E369] C8 Cycloalkanes to air	0.398 kg ethylene eq./kg
[E370] C8 Disub. Benzenes to air	0.761 kg ethylene eq./kg
[E371] C8 Internal Alkenes to air	0.398 kg ethylene eq./kg
[E372] C8 Ketones to air	0.326 kg ethylene eq./kg
[E373] C8 Terminal Alkenes to air	0.398 kg ethylene eq./kg
[E374] C9 Bicycloalkanes to air	0.398 kg ethylene eq./kg
[E375] C9 Cyclic Ketones to air	0.326 kg ethylene eq./kg
[E376] C9 Cyclic or di-olefins to air	0.398 kg ethylene eq./kg
[E377] C9 Cycloalkanes to air	0.398 kg ethylene eq./kg
[E378] C9 Disub. Benzenes to air	0.761 kg ethylene eq./kg
[E379] C9 Internal Alkenes to air	0.398 kg ethylene eq./kg
[E380] C9 Ketones to air	0.326 kg ethylene eq./kg
[E381] C9 Monosub. Benzenes to air	0.761 kg ethylene eq./kg
[E382] C9 Styrenes to air	0.761 kg ethylene eq./kg
[E383] C9 Terminal Alkenes to air	0.398 kg ethylene eq./kg
[E384] C9 Trisub. Benzenes to air	0.761 kg ethylene eq./kg
[E386] *caprolactam to air*	0.761 kg ethylene eq./kg
[E396] CFC (hard) (unspecified) to air	0.021 kg ethylene eq./kg
[E397] CFC (soft) (unspecified) to air	0.021 kg ethylene eq./kg
[E398] CFC-11 to air	0.021 kg ethylene eq./kg
[E399] CFC-113 to air	0.021 kg ethylene eq./kg
[E400] CFC-114 to air	0.021 kg ethylene eq./kg
[E401] CFC-115 to air	0.021 kg ethylene eq./kg
[E402] CFC-12 to air	0.021 kg ethylene eq./kg
[E403] CFC-13 to air	0.021 kg ethylene eq./kg
[E407] chlorobenzene to air	0.021 kg ethylene eq./kg
[E408] Chlorophenols (unspec.) to air	0.761 kg ethylene eq./kg
[E409] Chloropicrin to air	0.021 kg ethylene eq./kg
[E416] chrysene to air	0.761 kg ethylene eq./kg
[E417] cis-2-Butene to air	0.398 kg ethylene eq./kg
[E418] cis-2-Hexene to air	0.398 kg ethylene eq./kg
[E419] cis-2-Pentene to air	0.398 kg ethylene eq./kg
[E420] cis-Dichloroethene to air	0.021 kg ethylene eq./kg
[E424] Crotonaldehyde to air	0.443 kg ethylene eq./kg
[E426] Cyanides to air	0.398 kg ethylene eq./kg
[E427] cyclic alkanes (unspec.) to air	0.398 kg ethylene eq./kg
[E428] Cyclobutane to air	0.398 kg ethylene eq./kg
[E429] Cyclohexane to air	0.398 kg ethylene eq./kg
[E430] Cyclohexanol to air	0.398 kg ethylene eq./kg
[E431] Cyclohexanone to air	0.398 kg ethylene eq./kg
[E432] Cyclohexene to air	0.398 kg ethylene eq./kg
[E433] *Cyclopentadiene to air*	0.398 *kg ethylene eq./kg*
[E434] Cyclopentane to air	0.398 kg ethylene eq./kg
[E435] Cyclopentene to air	0.398 kg ethylene eq./kg
[E436] Cyclopropane to air	0.398 kg ethylene eq./kg
[E444] Di(2-ethylhexyl)phtalate to air	0.761 kg ethylene eq./kg
[E445] Diacetone alcohol to air	0.196 kg ethylene eq./kg
[E447] Dibutyl Ether to air	0.196 kg ethylene eq./kg
[E448] Dibutylphtalate to air	0.761 kg ethylene eq./kg
[E449] Dichloromethane (Methylene Chloride) to air	0.01 kg ethylene eq./kg
[E453] Diethyl Ether to air	0.398 kg ethylene eq./kg

[E454] diethylamine to air	0.398 kg ethylene eq./kg
[E455] Diethylketone to air	0.326 kg ethylene eq./kg
[E456] Diethylphtalate to air	0.761 kg ethylene eq./kg
[E457] Dihexylphtalate to air	0.761 kg ethylene eq./kg
[E458] Diisodecylphtalate to air	0.761 kg ethylene eq./kg
[E459] Diisooctylphtalate to air	0.761 kg ethylene eq./kg
[E460] Diisopropylether to air	0.398 kg ethylene eq./kg
[E462] Dimethyl Adipate to air	0.398 kg ethylene eq./kg
[E463] Dimethyl Ether to air	0.196 kg ethylene eq./kg
[E464] Dimethyl Glutarate to air	0.398 kg ethylene eq./kg
[E465] Dimethyl Naphthalenes to air	0.761 kg ethylene eq./kg
[E466] Dimethyl Succinate to air	0.398 kg ethylene eq./kg
[E467] dimethylamine to air	0.398 kg ethylene eq./kg
[E468] Dimethylphtalate to air	0.761 kg ethylene eq./kg
[E474] diphenyl to air	0.761 kg ethylene eq./kg
[E477] d-Limonene to air	0.398 kg ethylene eq./kg
[E482] esters (unspec.) to air	0.398 kg ethylene eq./kg
[E483] Ethane to air	0.398 kg ethylene eq./kg
[E484] ethanethiol (ethylmercaptan) to air	0.398 kg ethylene eq./kg
[E485] Ethanol to air	0.268 kg ethylene eq./kg
[E486] ethers (unspec.) to air	0.398 kg ethylene eq./kg
[E488] Ethyl Acetate to air	0.398 kg ethylene eq./kg
[E489] Ethyl Acetylene to air	0.398 kg ethylene eq./kg
[E490] Ethyl Acrylate to air	0.398 kg ethylene eq./kg
[E491] Ethyl Amine to air	0.398 kg ethylene eq./kg
[E492] Ethyl Chloride to air	0.021 kg ethylene eq./kg
[E493] Ethyl Cyclopentane to air	0.398 kg ethylene eq./kg
[E494] Ethyl Isopropyl Ether to air	0.196 kg ethylene eq./kg
[E495] Ethyl- trans-Butyl Ether to air	0.196 kg ethylene eq./kg
[E496] Ethylbenzene to air	0.761 kg ethylene eq./kg
[E497] ethylbutyrate to air	0.398 kg ethylene eq./kg
[E498] Ethylcyclohexane to air	0.398 kg ethylene eq./kg
[E499] Ethylene (ethene) to air	1 kg ethylene eq./kg
[E500] Ethylene Dibromide to air	0.021 kg ethylene eq./kg
[E501] Ethylene Dichloride to air	0.021 kg ethylene eq./kg
[E502] Ethylene Glycol to air	0.196 kg ethylene eq./kg
[E503] ethylthioethane (diethylsulfide) to air	0.398 kg ethylene eq./kg
[E509] fluoranthrene to air	0.761 kg ethylene eq./kg
[E511] Formaldehyde (methanal) to air	0.421 kg ethylene eq./kg
[E512] Formic acid to air	0.398 kg ethylene eq./kg
[E513] Furan to air	0.398 kg ethylene eq./kg
[E514] Furanes (unspec.) to air	0.398 kg ethylene eq./kg
[E515] Glyoxal to air	0.443 kg ethylene eq./kg
[E517] HALON (HBFC-2401) to air	0.021 kg ethylene eq./kg
[E518] HALON-1201 (HBFC-1201) to air	0.021 kg ethylene eq./kg
[E519] HALON-1202 to air	0.021 kg ethylene eq./kg
[E520] HALON-1211 to air	0.021 kg ethylene eq./kg
[E521] HALON-1301 to air	0.021 kg ethylene eq./kg
[E522] HALON-2311 (HBFC-2311) to air	0.021 kg ethylene eq./kg
[E523] HALON-2402 (Di-Broom-tetra-Fluor-ethane) to air	0.021 kg ethylene eq./kg
[E524] halons (unspecified) to air	0.021 kg ethylene eq./kg
[E525] HCFC-123 (1,1-Di-Chloro-222-Tri-Fluorethaan) to air	0.021 kg ethylene eq./kg
[E526] HCFC-124 (1-Chloro-1222-Tetra-Fluor-Ethane) to air	0.021 kg ethylene eq./kg
[E527] HCFC-141b (Dichlorofluorethane) to air	0.021 kg ethylene eq./kg
[E528] HCFC-142b (1-Chloro-1,1-Difluorethane) to air	0.021 kg ethylene eq./kg
[E529] HCFC-22 (Chlorodifluormethane) to air	0.021 kg ethylene eq./kg
[E530] HCFC-225ca to air	0.021 kg ethylene eq./kg
[E531] HCFC-225cb to air	0.021 kg ethylene eq./kg
[E538] hexachlorobiphenyl to air	0.761 kg ethylene eq./kg
[E541] Hexyl Cyclohexane to air	0.398 kg ethylene eq./kg
[E542] HFC (unspec.) to air	0.021 kg ethylene eq./kg
[E543] HFC-125 (Pentafluoroethane) to air	0.021 kg ethylene eq./kg
[E544] HFC-134 (1,1,1,2-tetra-fluor-ethane) to air	0.021 kg ethylene eq./kg
[E545] HFC-134a (1,1,1,2-tetrafluoroethane) to air	0.021 kg ethylene eq./kg
[E546] HFC-143 to air	0.021 kg ethylene eq./kg
[E547] HFC-143a (1,1,1-trifluoroethane) to air	0.021 kg ethylene eq./kg
[E548] HFC-152a (1,1-difluoroethane) to air	0.021 kg ethylene eq./kg

[E549] HFC-227ea to air	0.021 kg ethylene eq./kg
[E550] HFC-23 to air	0.021 kg ethylene eq./kg
[E551] HFC-236fa to air	0.021 kg ethylene eq./kg
[E552] HFC-245ca to air	0.021 kg ethylene eq./kg
[E553] HFC-32 to air	0.021 kg ethylene eq./kg
[E554] HFC-41 to air	0.021 kg ethylene eq./kg
[E555] HFC-43-10mee to air	0.021 kg ethylene eq./kg
[E556] Hydrocarbons to air	0.398 kg ethylene eq./kg
[E557] Hydrocarbons (excl. methane) to air	0.416 kg ethylene eq./kg
[E558] Hydrocarbons Chloro-Fluor- (HCFC) to air	0.021 kg ethylene eq./kg
[E559] Hydrocarbons haloginated to air	0.021 kg ethylene eq./kg
[E564] hydroxy compounds to air	0.377 kg ethylene eq./kg
[E565] Indan to air	0.761 kg ethylene eq./kg
[E566] indeno[1,2,3-cd]pyrene to air	0.761 kg ethylene eq./kg
[E569] isoamyl isobutyrate to air	0.398 kg ethylene eq./kg
[E570] isobutane to air	0.398 kg ethylene eq./kg
[E571] isobutanol (2-methylpropanol-1) to air	0.196 kg ethylene eq./kg
[E572] isobutene (2-methylpropene) to air	0.398 kg ethylene eq./kg
[E573] isobutyl acetate to air	0.398 kg ethylene eq./kg
[E574] isobutyl isobutyrate to air	0.398 kg ethylene eq./kg
[E575] isobutyraldehyde to air	0.443 kg ethylene eq./kg
[E576] isopentane to air	0.398 kg ethylene eq./kg
[E577] isopentylacetate (iso-amylacetate) to air	0.398 kg ethylene eq./kg
[E578] isoprene to air	0.398 kg ethylene eq./kg
[E579] isopropanol to air	0.196 kg ethylene eq./kg
[E580] isopropyl acetate to air	0.398 kg ethylene eq./kg
[E581] isopropyl benzene (cumene) to air	0.761 kg ethylene eq./kg
[E582] isopropyl propionate to air	0.398 kg ethylene eq./kg
[E593] meta-Cresol (3-methylphenol) to air	0.761 kg ethylene eq./kg
[E594] meta-Ethyltoluene to air	0.761 kg ethylene eq./kg
[E596] meta-Xylene (1,3-dimethylbenzene) to air	0.85 kg ethylene eq./kg
[E599] Methacrolein to air	0.443 kg ethylene eq./kg
[E600] Methane to air	0.007 kg ethylene eq./kg
[E601] methanethiol (methylmercaptan) to air	0.377 kg ethylene eq./kg
[E602] Methanol to air	0.196 kg ethylene eq./kg
[E604] Methyl Acetate to air	0.398 kg ethylene eq./kg
[E606] Methyl Acrylate to air	0.398 kg ethylene eq./kg
[E607] methyl amine to air	0.398 kg ethylene eq./kg
[E608] Methyl Bromide to air	0.021 kg ethylene eq./kg
[E609] Methyl Choride to air	0.021 kg ethylene eq./kg
[E610] Methyl cyclohexane to air	0.398 kg ethylene eq./kg
[E611] Methyl cyclopentane to air	0.398 kg ethylene eq./kg
[E612] methyl dithiomethane to air	0.398 kg ethylene eq./kg
[E613] Methyl Ethyl Ketone to air	0.473 kg ethylene eq./kg
[E614] Methyl Formate to air	0.398 kg ethylene eq./kg
[E615] Methyl Glyoxal to air	0.443 kg ethylene eq./kg
[E616] Methyl Isobutyl Ketone (4-methylpentanon-2) to air	0.326 kg ethylene eq./kg
[E617] Methyl iso-butyrate to air	0.398 kg ethylene eq./kg
[E618] methyl methacrylate to air	0.398 kg ethylene eq./kg
[E619] Methyl Naphthalenes to air	0.761 kg ethylene eq./kg
[E620] Methyl Nitrite to air	0.398 kg ethylene eq./kg
[E621] methyl propionate to air	0.398 kg ethylene eq./kg
[E622] Methyl propyl Ketone to air	0.326 kg ethylene eq./kg
[E623] methyl thiomethane (dimethylsulfide) to air	0.398 kg ethylene eq./kg
[E624] Methyl trans-Butyl Ether to air	0.196 kg ethylene eq./kg
[E625] Methyl-Isopropylketone to air	0.326 kg ethylene eq./kg
[E626] methyl-mercury to air	0.398 kg ethylene eq./kg
[E627] Methyl-transbutylketone to air	0.326 kg ethylene eq./kg
[E631] Meythylvinyl Ketone to air	0.326 kg ethylene eq./kg
[E633] Naphtalene to air	0.761 kg ethylene eq./kg
[E634] Neopentane to air	0.398 kg ethylene eq./kg
[E639] Nitrobenzene to air	0.761 kg ethylene eq./kg
[E645] Octyl Cyclohexane to air	0.398 kg ethylene eq./kg
[E646] oil crude to air	0.398 kg ethylene eq./kg
[E647] organics acids (unspec.) to air	0.398 kg ethylene eq./kg
[E648] ortho-Cresol (2-methylphenol) to air	0.761 kg ethylene eq./kg
[E649] ortho-Ethyltoluene to air	0.761 kg ethylene eq./kg

[E650] ortho-Xylene (1,2-dimethylbenzene) to air	0.85 kg ethylene eq./kg
[E653] para-Cresol (4-methylphenol) to air	0.761 kg ethylene eq./kg
[E654] para-Ethyltoluene to air	0.761 kg ethylene eq./kg
[E657] para-Trifluoromethyl-Cl-Benzene to air	0.021 kg ethylene eq./kg
[E658] para-Xylene (1,4-dimethylbenzene) to air	0.85 kg ethylene eq./kg
[E660] pentachlorobenzene to air	0.761 kg ethylene eq./kg
[E661] pentachloronitrobenzene to air	0.761 kg ethylene eq./kg
[E662] pentachlorophenol to air	0.761 kg ethylene eq./kg
[E663] Pentanaldehyde to air	0.443 kg ethylene eq./kg
[E664] Pentanol to air	0.196 kg ethylene eq./kg
[E665] Perfluorobutane to air	0.021 kg ethylene eq./kg
[E666] Perfluorocyclobutane to air	0.021 kg ethylene eq./kg
[E667] Perfluoroethane (CFC-116) to air	0.021 kg ethylene eq./kg
[E668] Perfluorohexane to air	0.021 kg ethylene eq./kg
[E669] Perfluoromethane (CFC-14) to air	0.021 kg ethylene eq./kg
[E670] Perfluoropentane to air	0.021 kg ethylene eq./kg
[E671] Perfluoropropane to air	0.021 kg ethylene eq./kg
[E673] petrol to air	0.398 kg ethylene eq./kg
[E674] phenanthrene to air	0.761 kg ethylene eq./kg
[E675] Phenol to air	0.761 kg ethylene eq./kg
[E680] Phtalic anhydride to air	0.761 kg ethylene eq./kg
[E681] phthalates to air	0.761 kg ethylene eq./kg
[E684] Polycyclic Aromatic Hydrocarbons (PAH) (unspecified) to air	0.761 kg ethylene eq./kg
[E685] Polycyclic Aromatic Hydrocarbons Carcinogenic- (carcinogenic-PAH) to air	0.761 kg ethylene eq./kg
[E687] Propane to air	0.42 kg ethylene eq./kg
[E688] Propanoic acid (propionic acid) to air	0.398 kg ethylene eq./kg
[E689] Propionaldehyde (propanal) to air	0.603 kg ethylene eq./kg
[E691] Propyl Acetate to air	0.398 kg ethylene eq./kg
[E692] Propyl Cyclopentane to air	0.398 kg ethylene eq./kg
[E693] Propylene to air	1.03 kg ethylene eq./kg
[E694] Propylene Carbonate to air	0.398 kg ethylene eq./kg
[E695] Propylene Glycol to air	0.196 kg ethylene eq./kg
[E696] Propylene Glycol Methyl Ether Acetate to air	0.398 kg ethylene eq./kg
[E697] Propylene Oxide to air	0.398 kg ethylene eq./kg
[E700] Sabinene to air	0.398 kg ethylene eq./kg
[E701] sec-Butanol to air	0.196 kg ethylene eq./kg
[E702] sec-Butyl Benzene to air	0.761 kg ethylene eq./kg
[E703] sec-Buytl Acetate to air	0.398 kg ethylene eq./kg
[E706] styrene (vinylbenzene) to air	0.761 kg ethylene eq./kg
[E707] Subst. C7 Ester (C12) to air	0.398 kg ethylene eq./kg
[E708] Sucts. C9 Ester (C12) to air	0.398 kg ethylene eq./kg
[E715] terpentine to air	0.377 kg ethylene eq./kg
[E716] tertiary-Butanol to air	0.196 kg ethylene eq./kg
[E717] tertiary-Butyl Acetate to air	0.398 kg ethylene eq./kg
[E718] tetrachloroethylene (PER) (tetrachloroethene) to air	0.021 kg ethylene eq./kg
[E719] Tetrachloromethane (carbon tetrachloride) (HC-10) to air	0.021 kg ethylene eq./kg
[E720] tetrafluorethylene to air	0.021 kg ethylene eq./kg
[E721] Tetralin to air	0.761 kg ethylene eq./kg
[E726] Tolualdehyde to air	0.443 kg ethylene eq./kg
[E727] Toluene to air	0.563 kg ethylene eq./kg
[E728] trans-1,2-Dichloroethene to air	0.021 kg ethylene eq./kg
[E729] trans-2-Butene to air	0.398 kg ethylene eq./kg
[E730] trans-2-Hexene to air	0.398 kg ethylene eq./kg
[E731] trans-2-Pentene to air	0.398 kg ethylene eq./kg
[E732] trans-dichloroethene to air	0.021 kg ethylene eq./kg
[E737] Trichloroethylene (tri) to air	0.066 kg ethylene eq./kg
[E738] Trichloromethane (chloroform) to air	0.398 kg ethylene eq./kg
[E742] Valeraldehyde (pentanal) to air	0.443 kg ethylene eq./kg
[E744] Vinyl Acetate to air	0.223 kg ethylene eq./kg
[E745] Vinyl Chloride (chloroethene) to air	0.021 kg ethylene eq./kg
[E746] Volatile Organic Compounds (VOC) to air	0.398 kg ethylene eq./kg
[E747] Volatile Organic Compounds non-methane- (non methane VOC) to air	0.416 kg ethylene eq./kg

Category = [C20] Depletion of the ozone layer (Ecoindicator95)
Description = Ecoindicator 95
Author = Goedkoop, 1995

Date = 27-09-1999

Environmental resources

Environmental resource	Value	Unit

Environmental emissions

Environmental emission	Value	Unit
[E90] 1,1,1-trichloroethane (methyl chloroform; HC-140a) to air		0.12 kg CFC-11 eq./kg
[E396] CFC (hard) (unspecified) to air		1 kg CFC-11 eq./kg
[E397] CFC (soft) (unspecified) to air		0.055 kg CFC-11 eq./kg
[E398] CFC-11 to air		1 kg CFC-11 eq./kg
[E399] CFC-113 to air		1.07 kg CFC-11 eq./kg
[E400] CFC-114 to air		0.8 kg CFC-11 eq./kg
[E401] CFC-115 to air		0.5 kg CFC-11 eq./kg
[E402] CFC-12 to air		1 kg CFC-11 eq./kg
[E403] CFC-13 to air		1 kg CFC-11 eq./kg
[E517] HALON (HBFC-2401) to air		0.25 kg CFC-11 eq./kg
[E518] HALON-1201 (HBFC-1201) to air		1.4 kg CFC-11 eq./kg
[E519] HALON-1202 to air		1.25 kg CFC-11 eq./kg
[E520] HALON-1211 to air		4 kg CFC-11 eq./kg
[E521] HALON-1301 to air		16 kg CFC-11 eq./kg
[E522] HALON-2311 (HBFC-2311) to air		0.14 kg CFC-11 eq./kg
[E523] HALON-2402 (Di-Broom-tetra-Fluor-ethane) to air		7 kg CFC-11 eq./kg
[E525] HCFC-123 (1,1-Di-Chloro-222-Tri-Fluorethaan) to air		0.02 kg CFC-11 eq./kg
[E526] HCFC-124 (1-Chloro-1222-Tetra-Fluor-Ethane) to air		0.022 kg CFC-11 eq./kg
[E527] HCFC-141b (Dichlorofluorethane) to air		0.11 kg CFC-11 eq./kg
[E528] HCFC-142b (1-Chloro-1,1-Difluorethane) to air		0.065 kg CFC-11 eq./kg
[E529] HCFC-22 (Chlorodifluormethane) to air		0.055 kg CFC-11 eq./kg
[E530] HCFC-225ca to air		0.025 kg CFC-11 eq./kg
[E531] HCFC-225cb to air		0.033 kg CFC-11 eq./kg
[E608] Methyl Bromide to air		0.6 kg CFC-11 eq./kg
[E719] Tetrachloromethane (carbon tetrachloride) (HC-10) to air		1.08 kg CFC-11 eq./kg

Category = [C21] Global warming (Ecoindicator95)
Description = Ecoindicator 95
Author = Goedkoop, 1995
Date = 27-09-1999

Environmental resources

Environmental resource	Value	Unit

Environmental emissions

Environmental emission	Value	Unit
[E90] 1,1,1-trichloroethane (methyl chloroform; HC-140a) to air		100 kg CO2 eq./kg
[E393] Carbon dioxide to air		1 kg CO2 eq./kg
[E396] CFC (hard) (unspecified) to air		7100 kg CO2 eq./kg
[E397] CFC (soft) (unspecified) to air		1600 kg CO2 eq./kg
[E398] CFC-11 to air		3400 kg CO2 eq./kg
[E399] CFC-113 to air		4500 kg CO2 eq./kg
[E400] CFC-114 to air		7000 kg CO2 eq./kg
[E401] CFC-115 to air		7000 kg CO2 eq./kg
[E402] CFC-12 to air		7100 kg CO2 eq./kg
[E403] CFC-13 to air		13000 kg CO2 eq./kg
[E449] Dichloromethane (Methylene Chloride) to air		15 kg CO2 eq./kg
[E469] Dinitrogen oxide (nitrous oxide) to air		270 kg CO2 eq./kg
[E520] HALON-1211 to air		4900 kg CO2 eq./kg
[E521] HALON-1301 to air		4900 kg CO2 eq./kg
[E525] HCFC-123 (1,1-Di-Chloro-222-Tri-Fluorethaan) to air		90 kg CO2 eq./kg
[E526] HCFC-124 (1-Chloro-1222-Tetra-Fluor-Ethane) to air		440 kg CO2 eq./kg
[E527] HCFC-141b (Dichlorofluorethane) to air		580 kg CO2 eq./kg
[E528] HCFC-142b (1-Chloro-1,1-Difluorethane) to air		1800 kg CO2 eq./kg
[E529] HCFC-22 (Chlorodifluormethane) to air		1600 kg CO2 eq./kg
[E543] HFC-125 (Pentafluoroethane) to air		3400 kg CO2 eq./kg
[E545] HFC-134a (1,1,1,2-tetrafluoroethane) to air		1200 kg CO2 eq./kg
[E547] HFC-143a (1,1,1-trifluoroethane) to air		3800 kg CO2 eq./kg
[E548] HFC-152a (1,1-difluoroethane) to air		150 kg CO2 eq./kg

[E600] Methane to air		11 kg CO2 eq./kg
[E719] Tetrachloromethane (carbon tetrachloride) (HC-10) to air		1300 kg CO2 eq./kg
[E738] Trichloromethane (chloroform) to air		25 kg CO2 eq./kg

Category = [C22] Acidification (Ecoindicator95)
Description = Ecoindicator 95
Author = Goedkoop, 1995
Date = 27-09-1999

Environmental resources

Environmental resource	Value	Unit

Environmental emissions

Environmental emission	Value	Unit
[E250] ammonia, ammonium to air		1.88 kg SO2 eq./kg
[E561] hydrogen chloride to air		0.88 kg SO2 eq./kg
[E562] hydrogen fluoride to air		1.6 kg SO2 eq./kg
[E641] nitrogen dioxide to air		0.7 kg SO2 eq./kg
[E642] nitrogen mono oxide to air		1.07 kg SO2 eq./kg
[E643] nitrogen oxides to air		0.7 kg SO2 eq./kg
[E709] sulphur dioxide to air		1 kg SO2 eq./kg

Category = [C23] Eutrophication (Ecoindicator95)
Description = Ecoindicator 95
Author = Goedkoop, 1995
Date = 27-09-1999

Environmental resources

Environmental resource	Value	Unit

Environmental emissions

Environmental emission	Value	Unit
[E250] ammonia, ammonium to air		0.33 kg PO4--- eq./kg
[E636] nitrate to air		0.42 kg PO4--- eq./kg
[E641] nitrogen dioxide to air		0.13 kg PO4--- eq./kg
[E642] nitrogen mono oxide to air		0.2 kg PO4--- eq./kg
[E643] nitrogen oxides to air		0.13 kg PO4--- eq./kg
[E676] phosphate to air		1 kg PO4--- eq./kg
[E779] ammonia, ammonium to fresh water		0.33 kg PO4--- eq./kg
[E809] Chemical oxigen demand (COD) to fresh water		0.022 kg PO4--- eq./kg
[E896] Nitrogen to fresh water		0.42 kg PO4--- eq./kg
[E910] Phosphate to fresh water		1 kg PO4--- eq./kg
[E911] Phosphorus to fresh water		3.06 kg PO4--- eq./kg
[E973] ammonia, ammonium to sea water		0.33 kg PO4--- eq./kg
[E1003] Chemical oxigen demand (COD) to sea water		0.022 kg PO4--- eq./kg
[E1090] Nitrogen to sea water		0.42 kg PO4--- eq./kg
[E1104] Phosphate to sea water		1 kg PO4--- eq./kg
[E1105] Phosphorus to sea water		3.06 kg PO4--- eq./kg

Category = [C24] heavy metals (Ecoindicator 95)
Description = Ecoindicator 95; Toxic effects by heavy metals
Author = Goedkoop, 1995
Date = 27-09-1999

Environmental resources

Environmental resource	Value	Unit

Environmental emissions

Environmental emission	Value	Unit
[E253] antimony to air		1 -/kg
[E255] arsenic to air		1 -/kg
[E259] barium to air		1 -/kg
[E270] beryllium to air		1 -/kg
[E385] cadmium to air		50 -/kg

[E414] chromium III to air	1	-/kg
[E415] chromium VI to air	1	-/kg
[E421] cobalt to air	1	-/kg
[E422] copper to air	1	-/kg
[E532] Heavy metals to air	1	-/kg
[E584] lead to air	1	-/kg
[E588] Mangane to air	1	-/kg
[E592] mercury to air	1	-/kg
[E626] methyl-mercury to air	1	-/kg
[E632] molybdenum to air	1	-/kg
[E635] nickel to air	1	-/kg
[E704] selenium to air	1	-/kg
[E722] thallium to air	1	-/kg
[E724] tin to air	1	-/kg
[E743] vanadium to air	1	-/kg
[E748] zinc to air	1	-/kg
[E782] antimony to fresh water	2	-/kg
[E783] arsenic to fresh water	1	-/kg
[E787] barium to fresh water	0.14	-/kg
[E799] Borium to fresh water	0.03	-/kg
[E801] cadmium to fresh water	3	-/kg
[E818] chromium III to fresh water	0.2	-/kg
[E819] chromium VI to fresh water	0.2	-/kg
[E822] copper to fresh water	0.005	-/kg
[E873] lead to fresh water	1	-/kg
[E877] mangane to fresh water	0.02	-/kg
[E880] mercury to fresh water	10	-/kg
[E890] molybdenum to fresh water	0.14	-/kg
[E976] antimony to sea water	2	-/kg
[E977] arsenic to sea water	1	-/kg
[E981] barium to sea water	0.14	-/kg
[E993] Borium to sea water	0.03	-/kg
[E995] cadmium to sea water	3	-/kg
[E1012] chromium III to sea water	0.2	-/kg
[E1013] chromium VI to sea water	0.2	-/kg
[E1016] copper to sea water	0.005	-/kg
[E1067] lead to sea water	1	-/kg
[E1071] mangane to sea water	0.02	-/kg
[E1074] mercury to sea water	10	-/kg
[E1084] molybdenum to sea water	0.14	-/kg
[E1087] nickel to sea water	0.5	-/kg

Category = [C25] carcinogenic (Ecoindicator95)
Description = Ecoindicator 95; carcinogenic effects
Author = Goedkoop, 1995
Date = 27-09-1999

Environmental resources

Environmental resource	Value	Unit

Environmental emissions

Environmental emission	Value	Unit
[E254] aromatics (unspecified) to air	1.10E-05	-/kg
[E255] arsenic to air	0.044	-/kg
[E263] Benzene to air	1.10E-05	-/kg
[E265] benzo[a]pyrene to air	1	-/kg
[E415] chromium VI to air	0.44	-/kg
[E496] Ethylbenzene to air	1.10E-05	-/kg
[E509] fluoranthrene to air	1	-/kg
[E635] nickel to air	0.44	-/kg
[E684] Polycyclic Aromatic Hydrocarbons (PAH) (unspecified) to air	1	-/kg
[E685] Polycyclic Aromatic Hydrocarbons Carcinogenic- (carcinogenic-PAH) to air	1	-/kg
[E713] tar to air	1.10E-05	-/kg

Category = [C26] winter smog (Ecoindicator95)

Description = Ecoindicator 95
Author = Goedkoop, 1995
Date = 27-09-1999

Environmental resources

Environmental resource	Value	Unit

Environmental emissions

Environmental emission	Value	Unit
[E392] Carbon black to air	1	-/kg
[E479] dust to air	1	-/kg
[E659] Particulates (diesel) (black smoke)(soot) to air	1	-/kg
[E683] PM10 to air	1	-/kg
[E741] TSP to air	1	-/kg

Category = [C27] pesticides (ecoindicator95)
Description = Ecoindicator 95; Toxic effects of pesticides
Author = Goedkoop, 1995
Date = 27-09-1999

Environmental resources

Environmental resource	Value	Unit

Environmental emissions

Environmental emission	Value	Unit
[E765] 2,4,5-T to air	1	-/kg
[E768] 2,4-D to fresh water	1	-/kg
[E774] acephate to fresh water	1	-/kg
[E777] aldicarb to fresh water	1	-/kg
[E778] aldrin to fresh water	1	-/kg
[E780] anilazine to fresh water	1	-/kg
[E784] atrazine to fresh water	1	-/kg
[E785] azinphos-ethyl to fresh water	1	-/kg
[E786] azinphos-methyl to fresh water	1	-/kg
[E788] benomyl to fresh water	1	-/kg
[E789] bentazone to fresh water	1	-/kg
[E797] bifenthrin to fresh water	1	-/kg
[E802] captafol to fresh water	1	-/kg
[E803] captan to fresh water	1	-/kg
[E804] carbaryl to fresh water	1	-/kg
[E805] carbendazim to fresh water	1	-/kg
[E806] carbofuran to fresh water	1	-/kg
[E810] chlordane to fresh water	1	-/kg
[E811] chlorfenvinphos to fresh water	1	-/kg
[E812] chloridazon to fresh water	1	-/kg
[E815] chlorothalonil to fresh water	1	-/kg
[E816] chlorpropham to fresh water	1	-/kg
[E817] chlorpyriphos to fresh water	1	-/kg
[E823] coumaphos to fresh water	1	-/kg
[E824] cyanazine to fresh water	1	-/kg
[E825] cypermethrin to fresh water	1	-/kg
[E826] cyromazine to fresh water	1	-/kg
[E827] DDT to fresh water	1	-/kg
[E828] deltamethrin to fresh water	1	-/kg
[E829] demeton to fresh water	1	-/kg
[E830] desmetryn to fresh water	1	-/kg
[E832] diazinon to fresh water	1	-/kg
[E835] dichlorprop to fresh water	1	-/kg
[E836] dichlorvos to fresh water	1	-/kg
[E837] dieldrin to fresh water	1	-/kg
[E842] dimethoate to fresh water	1	-/kg
[E844] dinoseb to fresh water	1	-/kg
[E845] dinoterb to fresh water	1	-/kg
[E847] disulfothon to fresh water	1	-/kg
[E848] diuron to fresh water	1	-/kg
[E849] DNOC to fresh water	1	-/kg

[E850] endosulfan to fresh water	1 -/kg
[E851] endrin to fresh water	1 -/kg
[E852] ethoprophos to fresh water	1 -/kg
[E855] fenitrothion to fresh water	1 -/kg
[E856] fenthion to fresh water	1 -/kg
[E857] fentin acetate to fresh water	1 -/kg
[E858] fentin chloride to fresh water	1 -/kg
[E859] fentin hydroxide to fresh water	1 -/kg
[E861] folpet to fresh water	1 -/kg
[E863] glyphosate to fresh water	1 -/kg
[E864] heptachlor to fresh water	1 -/kg
[E865] heptenophos to fresh water	1 -/kg
[E871] iprodione to fresh water	1 -/kg
[E872] isoproturon to fresh water	1 -/kg
[E874] lindane to fresh water	1 -/kg
[E875] linuron to fresh water	1 -/kg
[E876] malathion to fresh water	1 -/kg
[E878] MCPA to fresh water	1 -/kg
[E879] mecoprop to fresh water	1 -/kg
[E881] metamitron to fresh water	1 -/kg
[E882] metazachlor to fresh water	1 -/kg
[E883] methabenzthiazuron to fresh water	1 -/kg
[E884] methomyl to fresh water	1 -/kg
[E885] methylbromide to fresh water	1 -/kg
[E887] metobromuron to fresh water	1 -/kg
[E888] metolachlor to fresh water	1 -/kg
[E889] mevinphos to fresh water	1 -/kg
[E899] oxamyl to fresh water	1 -/kg
[E900] oxydemethon-methyl to fresh water	1 -/kg
[E902] parathion-ethyl to fresh water	1 -/kg
[E903] parathion-methyl to fresh water	1 -/kg
[E907] permethrin to fresh water	1 -/kg
[E912] phoxim to fresh water	1 -/kg
[E914] pirimicarb to fresh water	1 -/kg
[E916] propachlor to fresh water	1 -/kg
[E917] propoxur to fresh water	1 -/kg
[E920] pyrazophos to fresh water	1 -/kg
[E922] simazine to fresh water	1 -/kg
[E929] Thiram to fresh water	1 -/kg
[E931] tolclophos-methyl to fresh water	1 -/kg
[E933] tri-allate to fresh water	1 -/kg
[E934] triazophos to fresh water	1 -/kg
[E935] tributyltinoxide to fresh water	1 -/kg
[E936] trichlorfon to fresh water	1 -/kg
[E939] trifluarin to fresh water	1 -/kg
[E943] zineb to fresh water	1 -/kg

Appendix D. Inputs and outputs not assigned to an impact category

Name	Compartment	Unit
Barit ab Erz	from earth resources	kg
Bauxit	from earth resources	kg
Bentonit ab Erz	from earth resources	kg
dolomite	from earth resources	kg
flussspat	from earth resources	kg
Grubengas (Methan)	from earth resources	kg
Holz	from earth resources	t
Kalkstein vor Abbau	from earth resources	kg
KCl	from earth resources	kg
Kies vor Abbau	from earth resources	kg
quarzsand	from earth resources	kg
Sand vor Abbau	from earth resources	kg
Space Benthos II-III	from earth resources	m2a
Space Benthos II-IV	from earth resources	m2a
Space II-III	from earth resources	m2a
Space III-IV	from earth resources	m2a
Space II-IV	from earth resources	m2a
Space IV-IV	from earth resources	m2a
Steinsalz vor Abbau	from earth resources	kg
titanium ore	from earth resources	kg
Ton	from earth resources	kg
Wasser	from earth resources	kg
heat	to air	TJ
Aluminium	to air	kg
B	to air	kg
Br	to air	kg
Butene	to air	kg
Ca	to air	kg
Dichloromonofluormethane	to air	kg
Iron	to air	kg
He	to air	kg
Hexane	to air	kg
I (Iodium)	to air	kg
K (kalium)	to air	kg
La (Lanthane)	to air	kg
Mg	to air	kg
LT Radio. Rn222	to air	kBq
Na	to air	kg
NMVOC	to air	kg
Pentane	air	kg
Pt (Platina)	air	kg
Radio. Aerosole	air	kBq
Radio. Ag110m	air	kBq
Radio. Am241	air	kBq
Radio. other beta	air	kBq
Radio. Ar4	air	kBq
Radio. Ba140	air	kBq
Radio. C14	air	kBq
Radio. Ce141	air	kBq

Radio. Ce144	air	kBq
Radio. Cm alpha	air	kBq
Radio. Cm242	air	kBq
Radio. Cm244	air	kBq
Radio. Co57	air	kBq
Radio. Co58	air	kBq
Radio. Co60	air	kBq
Radio. Cr51	air	kBq
Radio. Cs134	air	kBq
Radio. Cs137	air	kBq
Radio. nobel gasses	air	kBq
Radio. Fe59	air	kBq
Radio. H3	air	kBq
Radio. I129	air	kBq
Radio. I131	air	kBq
Radio. I133	air	kBq
Radio. I135	air	kBq
Radio. K40	air	kBq
Radio. Kr85	air	kBq
Radio. Kr85m	air	kBq
Radio. Kr87	air	kBq
Radio. Kr88	air	kBq
Radio. Kr89	air	kBq
Radio. La140	air	kBq
Radio. Mn54	air	kBq
Radio. Nb95	air	kBq
Radio. Np237	air	kBq
Radio. Pa234m	air	kBq
Radio. Pb210	air	kBq
Radio. Pm147	air	kBq
Radio. Po210	air	kBq
Radio. Pu alpha	air	kBq
Radio. Pu238	air	kBq
Radio. Pu241 Beta	air	kBq
Radio. Ra226	air	kBq
Radio. Ra228	air	kBq
Radio. Rn220	air	kBq
Radio. Rn222	air	kBq
Radio. Ru103	air	kBq
Radio. Ru106	air	kBq
Radio. Sb124	air	kBq
Radio. Sb125	air	kBq
Radio. Sr89	air	kBq
Radio. Sr90	air	kBq
Radio. Tc99	air	kBq
Radio. Te123m	air	kBq
Radio. Th228	air	kBq
Radio. Th230	air	kBq
Radio. Th232	air	kBq
Radio. Th234	air	kBq
Radio. U alpha	air	kBq
Radio. U234	air	kBq

Radio. U235	air	kBq
Radio. U238	air	kBq
Radio. Xe131m	air	kBq
Radio. Xe133	air	kBq
Radio. Xe133m	air	kBq
Radio. Xe135	air	kBq
Radio. Xe135m	air	kBq
Radio. Xe137	air	kBq
Radio. Xe138	air	kBq
Radio. Zn65	air	kBq
Radio. Zr95	air	kBq
Sc (Scandium)	air	kg
Si	air	kg
Sr	air	kg
Th (Thorium)	air	kg
Ti (Titanium)	air	kg
U (Uranium)	air	kg
Zr (Zirkonium)	air	kg
heat	water	TJ
Xylene	water	kg
Acenaphthylene	water	kg
Alkane	water	kg
Alkene	water	kg
AOX	water	kg
Barite	water	kg
BSB5	water	kg
Ethylene Dichloride	water	kg
acid	water	kg
aluminium	water	kg
berilium	water	kg
calcium	water	kg
Cs (Cesium)	water	kg
Cyanide (CN)	water	kg
DOC	water	kg
fat and oil	water	kg
fatty acids as C	water	kg
Glutaraldehyde	water	kg
Hexachloroethane	water	kg
HOCl	water	kg
hydrocarbons	water	kg
iod	water	kg
K	water	kg
metals	water	kg
Methylene chloride	water	kg
Mg	water	kg
MTBE	water	kg
Fe	water	kg
Fluoride	water	kg
silver	water	kg
Na	water	kg
OCl	water	kg
PAH Polycyclic. Aromatic	water	kg

Hydrocarbons		
Radio. Ag110m	water	kBq
Radio. Alpha-radiator	water	kBq
Radio. Am241	water	kBq
Radio. Ba140	water	kBq
Radio. C14	water	kBq
Radio. Cd109	water	kBq
Radio. Ce141	water	kBq
Radio. Ce144	water	kBq
Radio. Cm alpha	water	kBq
Radio. Co57	water	kBq
Radio. Co58	water	kBq
Radio. Co60	water	kBq
Radio. Cr51	water	kBq
Radio. Cs134	water	kBq
Radio. Cs136	water	kBq
Radio. Cs137	water	kBq
Radio. Fe59	water	kBq
Radio. H3	water	kBq
Radio. I129	water	kBq
Radio. I131	water	kBq
Radio. I133	water	kBq
Radio. K 40	water	kBq
Radio. La140	water	kBq
Radio. Mn54	water	kBq
Radio. Mo99	water	kBq
Radio. Na24	water	kBq
Radio. Nb95	water	kBq
Radio. Np237	water	kBq
Radio. Nucl. mixed	water	kBq
Radio. Pa234m	water	kBq
Radio. Pb 210	water	kBq
Radio. Po 210	water	kBq
Radio. Pu alpha	water	kBq
Radio. Pu241 beta	water	kBq
Radio. Ra 224	water	kBq
Radio. Ra 226	water	kBq
Radio. Ra 228	water	kBq
Radio. Ru103	water	kBq
Radio. Ru106	water	kBq
Radio. Sb122	water	kBq
Radio. Sb124	water	kBq
Radio. Sb125	water	kBq
Radio. Spalt- u. Aktiv. prod.	water	kBq
Radio. Sr89	water	kBq
Radio. Sr90	water	kBq
Radio. Tc99	water	kBq
Radio. Tc99m	water	kBq
Radio. Te123m	water	kBq
Radio. Te132	water	kBq
Radio. Th 228	water	kBq
Radio. Th 232	water	kBq

Radio. Th230	water	kBq
Radio. Th234	water	kBq
Radio. U 238	water	kBq
Radio. U alpha	water	kBq
Radio. U234	water	kBq
Radio. U235	water	kBq
Radio. Y90	water	kBq
Radio. Zn65	water	kBq
Radio. Zr95	water	kBq
Rb (Rubidium)	water	kg
salt	water	kg
Sb	water	kg
Se	water	kg
Si	water	kg
solved substances	water	kg
Solvents (Cl)	water	kg
Sr	water	kg
Sulfite	water	kg
suspended substances	water	kg
Ti	water	kg
TOC	water	kg
Triethylene Glykol	water	kg
volatile organic comp. as C	water	kg
W (wolfram)	water	kg
Xylene	water	kg
heat	soil	TJ
aluminium	soil	kg
C	soil	kg
calcium	soil	kg
iron	soil	kg
mangane	soil	kg
N	soil	kg
oil	soil	kg
oil biol.	soil	kg
P	soil	kg
S	soil	kg
chlorine	to air	kg
fluor	to air	kg
TiO2	water	kg
Te	air	kg
heavy metals	air	kg
metals	air	kg
oil	water	kg
HC	water	kg
bromoxynil	air	kg
clopyralid	air	kg
lambda-cyhalothrin	air	kg
sethoxydim	air	kg
bromoxynil	soil	kg
clopyralid	soil	kg
lambda-cyhalothrin	soil	kg
sethoxidim	soil	kg

bromoxynil	water	kg
clopyralid	water	kg
lambda-cyhalothrin	water	kg
sethoxidim	water	kg
heptane	to air	kg
hydrogen sulphide	to fresh water	kg
Nitrites	to fresh water	kg
sulphur dioxide	to fresh water	kg

. Intervention tables

Environmental flow	BAseline (Dutch)	Swedish	Cork	Unit
[E16] cobalt (Co) from earth resources	-3.16E-06	-2.67E-06	-3.06E-06	kg
[E17] copper (Cu) from earth resources	-0.7435	-0.74809	-0.66445	kg
[E18] chromium (Cr) from earth resources	-0.26267	-0.35548	-0.23928	kg
[E33] iron (Fe) from earth resources	-150.33	-149.98	-129.96	kg
[E38] lead (Pb) from earth resources	-0.8873	-1.3594	-0.83331	kg
[E41] manganese (Mn) from earth resources	-0.092737	-0.12201	-0.083536	kg
[E43] molybdenum (Mo) from earth resources	-2.90E-06	-1.95E-06	-2.85E-06	kg
[E46] nickel (Ni) from earth resources	-0.15328	-0.20956	-0.14015	kg
[E49] palladium (Pd) from earth resources	-5.53E-07	-7.91E-07	-5.19E-07	kg
[E50] phosphorus (P) from earth resources	-16.445	-12.495	-11.692	kg
[E51] platinum (Pt) from earth resources	-6.59E-07	-9.49E-07	-6.20E-07	kg
[E57] rhenium (Re) from earth resources	-4.93E-07	-6.90E-07	-4.63E-07	kg
[E58] rhodium (Rh) from earth resources	-5.94E-07	-8.52E-07	-5.59E-07	kg
[E65] silver (Ag) from earth resources	-0.0046019	-0.0040948	-0.0043543	kg
[E68] sulfur (S) from earth resources	-27.031	-9.5491	-27.031	kg
[E75] tin (Sn) from earth resources	-0.0025542	-0.002271	-0.0024167	kg
[E78] uranium (U) from earth resources	-0.051527	-0.038311	-0.0394	kg
[E83] zinc (Zn) from earth resources	-0.023439	-0.03648	-0.021899	kg
[E85] oil crude from earth resources	-1602	-1427.7	-1610.1	kg
[E86] natural gas from earth resources	-1174.8	-784.1	-2040.2	m3
[E87] coal soft from earth resources	-1148.5	-713.99	-1181.9	kg
[E88] coal hard from earth resources	-529.61	-391.07	-371.26	kg
[E90] 1,1,1-trichloroethane (methyl chloroform; HC-140a) to air	0.11022	0.085923	0.11954	kg
[E97] 1,2,3-Trimethyl Benzene to air	0.19434	0.18674	0.18891	kg
[E100] 1,2,4-trimethylbenzene to air	0.23057	0.21499	0.22821	kg
[E109] 1,3,5-trimethylbenzene (mesitylene) to air	0.20222	0.19288	0.19746	kg
[E123] 1-Butyl Acetate to air	0.025271	0.0197	0.027408	kg
[E130] 1-Decane to air	0.069229	0.053968	0.075081	kg
[E131] 1-Dodecane to air	0.086402	0.067355	0.093707	kg
[E134] 1-Heptane to air	0.037392	0.029149	0.040553	kg
[E137] 1-Hexane to air	0.057614	0.044913	0.062485	kg
[E141] 1-Nonane to air	0.080836	0.063016	0.08767	kg
[E143] 1-Octane to air	0.028805	0.022455	0.031241	kg
[E147] 1-Pentane to air	0.014401	0.011226	0.015618	kg
[E150] 1-Propyl Benzene to air	0.19025	0.18339	0.18458	kg
[E154] 1-Undecane to air	0.086402	0.067355	0.093707	kg
[E168] 2,3,7,8-TCDD (tetrachloride-dibenzo-dioxin) to air	7.49E-10	7.09E-10	6.12E-10	kg
[E182] 2.3- Dimethylbutane to air	0.020225	0.015767	0.021935	kg
[E199] 2-Methylheptane to air	0.063408	0.04943	0.068768	kg

[E200] 2-Methylhexane to air	0.017201	0.013409	0.018655 kg
[E201] 2-Methylnonane to air	0.040416	0.031507	0.043833 kg
[E202] 2-Methyloctane to air	0.026012	0.020278	0.028211 kg
[E203] 2-Methylpentane to air	0.051797	0.040378	0.056175 kg
[E223] 3-Methylhexane to air	0.014408	0.011232	0.015626 kg
[E224] 3-Methylpentane to air	0.037392	0.029149	0.040553 kg
[E232] Acetaldehyde (ethanal) to air	0.001233	0.0009408	0.0009588 kg
[E233] Acetic acid to air	0.0096433	0.0069185	0.012838 kg
[E234] Acetone (2-propanon) to air	0.11139	0.086818	0.1204 kg
[E235] Acetylene to air	0.72736	0.70768	0.70128 kg
[E236] Acrolein (2-propenal) to air	1.06E-06	1.05E-06	9.63E-07 kg
[E239] aldehydes (unspec.) to air	4.00E-05	2.96E-05	2.84E-05 kg
[E242] alkanes (unspec.) to air	0.047882	0.039719	0.043909 kg
[E243] alkenes (unspec.) to air	0.0022927	0.0017444	0.00137 kg
[E249] ammonia, ammonium to air	21.408	16.266	15.22 kg
[E252] antimony to air	0.0029855	0.002347	0.002986 kg
[E253] aromatics (unspecified) to air	0.0015145	0.0010898	0.0013002 kg
[E254] arsenic to air	0.0078946	0.0064217	0.0078653 kg
[E258] barium to air	0.000547	0.0003929	0.0004062 kg
[E261] Benzaldehyde to air	5.53E-07	5.50E-07	5.03E-07 kg
[E262] Benzene to air	1.5063	1.4696	1.4633 kg
[E264] benzo[a]pyrene to air	3.54E-05	2.64E-05	3.33E-05 kg
[E269] beryllium to air	1.11E-05	8.22E-06	8.20E-06 kg
[E286] butane (unspec.) to air	0.1652	0.13447	0.18827 kg
[E384] cadmium to air	0.0059176	0.0047136	0.0059012 kg
[E392] Carbon dioxide to air	7254.8	5839.8	8938.5 kg
[E394] Carbon Monoxide to air	57.156	47.533	90.837 kg
[E397] CFC-11 to air	1.25E-05	9.09E-06	8.19E-06 kg
[E399] CFC-114 to air	0.000423	0.0003144	0.0003058 kg
[E401] CFC-12 to air	2.69E-06	1.96E-06	1.76E-06 kg
[E402] CFC-13 to air	1.68E-06	1.22E-06	1.10E-06 kg
[E411] chlorpyriphos to air	0.013647	0.010369	0.0097026 kg
[E412] chromium (unspecified) to air	0.0033873	0.0026978	0.0032314 kg
[E420] cobalt to air	0.0011762	0.0009416	0.0010649 kg
[E421] copper to air	0.040295	0.02905	0.039852 kg
[E425] Cyanides to air	8.48E-05	6.68E-05	7.55E-05 kg
[E440] deltamethrin to air	3.70E-05	2.81E-05	2.63E-05 kg
[E448] Dichloromethane (Methylene Chloride) to air	0.087648	0.068326	0.095056 kg
[E460] dimethoate to air	0.0056904	0.0043235	0.0040457 kg
[E468] Dinitrogen oxide (nitrous oxide) to air	30.384	23.159	21.622 kg
[E482] Ethane to air	3.2256	3.056	3.2881 kg
[E484] Ethanol to air	0.40033	0.31205	0.43337 kg
[E487] Ethyl Acetate to air	0.043323	0.033773	0.046986 kg
[E495] Ethylbenzene to air	0.22002	0.20704	0.21555 kg
[E498] Ethylene (ethene) to air	3.3703	3.5362	3.24 kg
[E500] Ethylene Dichloride to air	0.0001221	8.44E-05	0.0001518 kg
[E510] Formaldehyde (methanal) to air	3.6656	3.5582	3.5377 kg
[E515] glyphosate to air	0.0017776	0.0013506	0.0012638 kg
[E520] HALON-1301 to air	0.0005758	0.0005186	0.0005448 kg
[E528] HCFC-22 (Chlorodifluormethane) to air	2.98E-06	2.17E-06	1.99E-06 kg
[E533] heptane to air	0.028313	0.024539	0.026862 kg
[E536] hexachlorobenzene to air	4.56E-09	5.10E-09	4.13E-09 kg

[E544] HFC-134a (1,1,1,2-tetrafluoroethane) to air	-7.32E-17	-4.97E-17	-1.33E-16 kg
[E559] hydrogen chloride to air	1.3237	1.0317	1.3006 kg
[E560] hydrogen fluoride to air	0.15508	0.12061	0.14523 kg
[E561] hydrogen sulfide to air	0.049989	0.034578	0.06183 kg
[E570] isobutyl acetate to air	0.031468	0.024531	0.034128 kg
[E573] isopentane to air	0.0085869	0.0066939	0.0093128 kg
[E577] isopropyl acetate to air	0.019481	0.015187	0.021128 kg
[E578] isopropyl benzene (cumene) to air	0.18729	0.18142	0.18117 kg
[E581] lead to air	0.15153	0.12166	0.15189 kg
[E584] malathion to air	0.018935	0.014386	0.013462 kg
[E585] Mangane to air	0.045489	0.037225	0.044606 kg
[E586] MCPA to air	0.0037265	0.0028313	0.0026494 kg
[E588] mercury to air	0.0031749	0.0024938	0.0031691 kg
[E590] meta-Ethyltoluene to air	0.19987	0.19105	0.19492 kg
[E592] meta-Xylene (1,3-dimethylbenzene) to air	0.24148	0.22349	0.24004 kg
[E596] Methane to air	24.552	17.966	26.609 kg
[E598] Methanol to air	0.062396	0.048629	0.066711 kg
[E599] methomyl to air	0.0065717	0.0049931	0.0046723 kg
[E600] Methyl Acetate to air	0.011298	0.0088071	0.012253 kg
[E608] Methyl Ethyl Ketone to air	0.19977	0.15573	0.21666 kg
[E611] Methyl Isobutyl Ketone (4-methylpentanon-2) to air	0.068888	0.053702	0.074711 kg
[E619] Methyl trans-Butyl Ether to air	7.41E-05	0.0001159	6.96E-05 kg
[E627] molybdenum to air	0.0002665	0.0002209	0.0002134 kg
[E630] nickel to air	0.010368	0.0091329	0.0090703 kg
[E634] nitrogen to air	0.33587	0.22525	0.57431 kg
[E637] nitrogen oxides to air	37.382	37.059	39.359 kg
[E642] ortho-Ethyltoluene to air	0.20072	0.19171	0.19583 kg
[E643] ortho-Xylene (1,2-dimethylbenzene) to air	0.22227	0.20852	0.21921 kg
[E647] para-Ethyltoluene to air	0.19988	0.19106	0.19492 kg
[E651] para-Xylene (1,4-dimethylbenzene) to air	0.24061	0.22264	0.2392 kg
[E653] pentachlorobenzene to air	1.22E-08	1.36E-08	1.10E-08 kg
[E655] pentachlorophenol to air	1.97E-09	2.20E-09	1.78E-09 kg
[E660] Perfluoroethane (CFC-116) to air	5.71E-05	8.26E-05	5.02E-05 kg
[E662] Perfluoromethane (CFC-14) to air	0.0005136	0.0007435	0.0004517 kg
[E665] permethrin to air	0.0005539	0.0004209	0.0003938 kg
[E668] Phenol to air	5.29E-06	2.78E-06	4.19E-06 kg
[E671] Phosphorus to air	0.0006957	0.0005796	0.0005622 kg
[E676] PM10 to air	6.8834	5.9896	7.8811 kg
[E677] Polycyclic Aromatic Hydrocarbons (PAH) (unspecified) to air	0.0005312	0.0004486	0.0007896 kg
[E680] Propane to air	0.20094	0.15927	0.24263 kg
[E681] Propanoic acid (propionic acid) to air	0.0006523	0.0004381	0.0012385 kg
[E682] Propionaldehyde (propanal) to air	5.53E-07	5.50E-07	5.03E-07 kg
[E686] Propylene to air	0.73645	0.71683	0.70988 kg
[E697] selenium to air	0.0015874	0.0013327	0.0014367 kg
[E702] sulphur dioxide to air	41.229	34.083	46.494 kg
[E703] Sulphur hexafluoride to air	3.38E-06	2.56E-06	2.40E-06 kg
[E711] tetrachloroethylene (PER) (tetrachloroethene) to air	0.095065	0.074108	0.1031 kg
[E712] Tetrachloromethane (carbon tetrachloride) (HC-10) to air	3.03E-05	2.10E-05	3.71E-05 kg
[E715] thallium to air	4.17E-06	3.07E-06	3.17E-06 kg
[E717] tin to air	0.017938	0.014104	0.018044 kg
[E720] Toluene to air	0.67142	0.59426	0.68648 kg
[E729] trichlorfon to air	0.0088882	0.0067531	0.0063192 kg

[E730] Trichloroethylene (tri) to air	0.10667	0.083157	0.11569 kg
[E731] Trichloromethane (chloroform) to air	3.22E-06	2.23E-06	4.01E-06 kg
[E736] vanadium to air	0.028781	0.02507	0.024776 kg
[E738] Vinyl Chloride (chloroethene) to air	1.99E-05	1.37E-05	2.47E-05 kg
[E741] zinc to air	0.049842	0.063005	0.046987 kg
[E743] 1,1,1-trichloroethane to air	9.90E-07	1.55E-06	9.31E-07 kg
[E772] ammonia, ammonium to fresh water	0.12186	0.10656	0.11161 kg
[E775] antimony to fresh water	0.045258	0.040636	0.044124 kg
[E776] arsenic to fresh water	0.00292	0.0016916	0.0023658 kg
[E780] barium to fresh water	0.29769	0.23175	0.26625 kg
[E783] benzene to fresh water	0.0098211	0.0089104	0.0094359 kg
[E791] Biological Oxygen Demand (BOD) to fresh water	0.0020506	0.0016212	0.0034845 kg
[E792] Borium to fresh water	0.0019806	0.0017887	0.0015409 kg
[E794] cadmium to fresh water	0.0054054	0.0048521	0.0043737 kg
[E802] Chemical oxigen demand (COD) to fresh water	1.3879	1.1939	1.2867 kg
[E806] Chlorine to fresh water	127.88	114.33	166.99 kg
[E807] chlorobenzene to fresh water	3.84E-09	6.07E-09	3.63E-09 kg
[E810] chlorpyriphos to fresh water	6.50E-05	4.94E-05	4.62E-05 kg
[E811] chromium III to fresh water	0.015471	0.009258	0.012726 kg
[E812] chromium VI to fresh water	8.06E-06	6.10E-06	5.68E-06 kg
[E814] cobalt to fresh water	0.0028391	0.0016195	0.0022961 kg
[E815] copper to fresh water	0.008216	0.0050571	0.0066519 kg
[E821] deltamethrin to fresh water	9.64E-07	7.33E-07	6.86E-07 kg
[E824] Di(2-ethylhexyl)phtalate to fresh water	1.31E-08	1.56E-08	1.40E-08 kg
[E826] Dibutylphtalate to fresh water	1.72E-08	7.69E-09	3.78E-08 kg
[E835] dimethoate to fresh water	2.69E-05	2.05E-05	1.92E-05 kg
[E836] Dimethylphtalate to fresh water	1.08E-07	4.81E-08	2.37E-07 kg
[E846] ethylbenzene to fresh water	0.0017412	0.0015808	0.0016458 kg
[E855] Formaldehyde (methanal) to fresh water	1.42E-06	2.09E-06	1.31E-06 kg
[E856] glyphosate to fresh water	0.0001516	0.0001152	0.0001078 kg
[E861] hydrogen sulfide to fresh water	0.0010726	0.000638	0.0010335 kg
[E865] lead to fresh water	0.011849	0.0085415	0.010118 kg
[E868] malathion to fresh water	7.77E-05	5.90E-05	5.52E-05 kg
[E869] mangane to fresh water	0.03632	0.022695	0.029637 kg
[E870] MCPA to fresh water	0.0001624	0.0001234	0.0001155 kg
[E872] mercury to fresh water	1.23E-05	1.09E-05	1.35E-05 kg
[E876] methomyl to fresh water	5.01E-05	3.81E-05	3.56E-05 kg
[E882] molybdenum to fresh water	0.0046464	0.0028464	0.0036547 kg
[E885] nickel to fresh water	0.0075558	0.0044645	0.0061394 kg
[E886] Nitrate to fresh water	0.17294	0.21881	0.15077 kg
[E887] Nitrites to fresh water	0.0023119	0.0017155	0.0016562 kg
[E888] Nitrogen to fresh water	0.13044	0.11989	0.12352 kg
[E898] permethrin to fresh water	1.45E-05	1.10E-05	1.03E-05 kg
[E900] phenol to fresh water	0.010866	0.009833	0.01097 kg
[E901] Phosphate to fresh water	0.090854	0.053482	0.073737 kg
[E902] Phosphorus to fresh water	0.054532	0.041434	0.038792 kg
[E914] sulphates to fresh water	27.741	20.561	35.938 kg
[E915] sulphur dioxide to fresh water	0.003465	0.0030096	0.0032144 kg
[E916] tetrachloroethylene (PER) to fresh water	1.66E-07	1.14E-07	2.06E-07 kg
[E917] Tetrachloromethane (carbon tetrachloride) to fresh water	2.53E-07	1.75E-07	3.14E-07 kg
[E920] tin to fresh water	0.000594	0.0004506	0.0004186 kg
[E922] toluene to fresh water	0.0081126	0.0073558	0.0078049 kg

[E925] tributyltinoxide to fresh water	0.0003989	0.0003822	0.0003806	kg
[E926] trichlorfon to fresh water	0.0001163	8.84E-05	8.27E-05	kg
[E927] Trichloroethylene (tri) to fresh water	1.05E-05	7.23E-06	1.30E-05	kg
[E928] Trichloromethane=chloroform to fresh water	3.84E-05	2.65E-05	4.77E-05	kg
[E930] vanadium to fresh water	0.0075229	0.004374	0.0060531	kg
[E931] Vinyl Chloride (chloroethene) to fresh water	4.70E-08	3.25E-08	5.84E-08	kg
[E932] zinc to fresh water	0.028126	0.020642	0.023242	kg
[E1185] chlorpyriphos to agricultural soil	0.011104	0.0084366	0.0078945	kg
[E1196] deltamethrin to agricultural soil	0.0003298	0.0002506	0.0002345	kg
[E1210] dimethoate to agricultural soil	0.0046329	0.0035201	0.0032939	kg
[E1231] glyphosate to agricultural soil	0.027697	0.021044	0.019692	kg
[E1242] malathion to agricultural soil	0.01541	0.011708	0.010956	kg
[E1243] MCPA to agricultural soil	0.058163	0.044192	0.041352	kg
[E1249] methomyl to agricultural soil	0.0053631	0.0040748	0.003813	kg
[E1268] permethrin to agricultural soil	0.0049602	0.0037688	0.0035266	kg
[E1292] trichlorfon to agricultural soil	0.035502	0.026974	0.025241	kg
[E1333] arsenic to agricultural soil	4.53E-05	3.82E-05	5.01E-05	kg
[E1349] cadmium to industrial soil	1.38E-05	1.20E-05	1.12E-05	kg
[E1364] chromium III to industrial soil	0.0005669	0.0004785	0.0006268	kg
[E1367] cobalt to industrial soil	1.95E-06	1.75E-06	1.84E-06	kg
[E1368] copper to industrial soil	9.74E-06	8.73E-06	9.21E-06	kg
[E1417] lead to industrial soil	4.64E-05	4.14E-05	4.35E-05	kg
[E1423] mercury to industrial soil	3.23E-07	2.71E-07	3.06E-07	kg
[E1436] nickel to industrial soil	1.46E-05	1.31E-05	1.38E-05	kg
[E1476] zinc to industrial soil	0.001797	0.0015212	0.0019713	kg
[E1478] Barit ab Erz to industrial soil	-8.5448	-7.245	-9.5006	kg
[E1479] Bauxit to industrial soil	-11.922	-12.876	-16.103	kg
[E1480] Bentonit ab Erz to industrial soil	-694.45	-528.02	-494.17	kg
[E1481] dolomite to industrial soil	-157	-119.29	-111.62	kg
[E1482] Erdoelgas to industrial soil	-101.24	-91.078	-95.779	Nm3
[E1483] flussspat to industrial soil	-0.11539	-0.091303	-0.19857	kg
[E1484] Grubengas (Methan) to industrial soil	-9.8096	-6.0786	-8.609	kg
[E1485] Holz to industrial soil	-0.29977	-0.23283	-0.27084	t
[E1486] Kalkstein vor Abbau to industrial soil	-355.43	-317.28	-408.28	kg
[E1488] Kies vor Abbau to industrial soil	-2400.7	-3171.6	-2146.6	kg
[E1489] quarzsand to industrial soil	-10.706	-8.4714	-18.424	kg
[E1490] Sand vor Abbau to industrial soil	-699.21	-529.11	-529.33	kg
[E1491] Space Benthos II-III to industrial soil	-133.97	-114.23	-149.93	m2a
[E1492] Space Benthos II-IV to industrial soil	-0.45914	-0.34793	-0.32646	m2a
[E1493] Space II-III to industrial soil	-216.86	-168.9	-162	m2a
[E1494] Space III-IV to industrial soil	-92.468	-136.87	-88.634	m2a
[E1495] Space II-IV to industrial soil	-59.787	-78.078	-54.539	m2a
[E1496] Space IV-IV to industrial soil	-1.5156	-0.92748	-1.4722	m2a
[E1497] Steinsalz vor Abbau to industrial soil	-158.54	-125.49	-229.84	kg
[E1498] titanium ore to industrial soil	-318.24	-251.81	-547.64	kg
[E1499] Ton to industrial soil	-34.314	-34.404	-27.649	kg
[E1500] Wasser to industrial soil	-2.84E+05	-55362	-2.67E+05	kg
[E1501] heat to industrial soil	0.11261	0.08963	0.13779	TJ
[E1502] Aluminium from earth resources	0.036198	0.025927	0.027314	kg
[E1503] B from earth resources	0.020541	0.015183	0.014308	kg
[E1504] Br from earth resources	0.0017622	0.0013008	0.0011227	kg
[E1505] Butene from earth resources	0.016229	0.023664	0.015316	kg

[E1506] Ca from earth resources	0.037793	0.029386	0.027535	kg
[E1507] Dichloromonofluormethane from earth resources	0.0037605	0.0059415	0.0035442	kg
[E1508] Iron from earth resources	0.032599	0.026385	0.025416	kg
[E1509] He from earth resources	0.10207	0.091883	0.09656	kg
[E1510] Hexane from earth resources	0.059254	0.051494	0.056212	kg
[E1511] I (Iodium) from earth resources	0.0008399	0.0006165	0.0005532	kg
[E1512] K (kalium) from earth resources	0.03008	0.028755	0.025389	kg
[E1513] La (Lanthane) from earth resources	1.83E-05	1.30E-05	1.43E-05	kg
[E1514] Mg from earth resources	0.012889	0.0092554	0.0096966	kg
[E1515] LT Radio. Rn222 from earth resources	2.65E+06	1.97E+06	1.89E+06	kBq
[E1516] Na from earth resources	0.011814	0.0098601	0.0096186	kg
[E1517] NMVOC from earth resources	17.312	16.389	17.008	kg
[E1518] Pentane from earth resources	0.19573	0.16048	0.22067	kg
[E1519] Pt (Platina) from earth resources	4.20E-06	6.66E-06	3.95E-06	kg
[E1520] Radio. Aerosole from earth resources	9.92E+05	7.54E+05	7.06E+05	kBq
[E1521] Radio. Ag110m from earth resources	9.33E-06	6.49E-06	4.68E-06	kBq
[E1522] Radio. Am241 from earth resources	0.0003799	0.0002815	0.0002709	kBq
[E1523] Radio. other beta from earth resources	1.48E-05	1.10E-05	1.09E-05	kBq
[E1524] Radio. Ar4 from earth resources	19.056	13.184	9.2345	kBq
[E1525] Radio. Ba140 to air	0.0001509	0.0001116	0.0001078	kBq
[E1526] Radio. C14 to air	34.305	25.412	24.493	kBq
[E1527] Radio. Ce141 to air	0.0010366	0.0007875	0.0007369	kBq
[E1528] Radio. Ce144 to air	0.0040299	0.0029868	0.0028739	kBq
[E1529] Radio. Cm alpha to air	0.000602	0.0004462	0.0004292	kBq
[E1530] Radio. Cm242 to air	1.22E-09	8.89E-10	7.84E-10	kBq
[E1531] Radio. Cm244 to air	1.11E-08	8.03E-09	7.08E-09	kBq
[E1532] Radio. Co57 to air	1.47E-08	1.02E-08	7.05E-09	kBq
[E1533] Radio. Co58 to air	0.0004868	0.0003639	0.0003585	kBq
[E1534] Radio. Co60 to air	0.000794	0.0005895	0.0005691	kBq
[E1535] Radio. Cr51 to air	5.74E-05	4.19E-05	3.81E-05	kBq
[E1536] Radio. Cs134 to air	0.014332	0.010623	0.010232	kBq
[E1537] Radio. Cs137 to air	0.027794	0.020604	0.019827	kBq
[E1538] Radio. nobel gasses to air	19.928	14.821	14.761	kBq
[E1539] Radio. Fe59 to air	4.60E-07	3.33E-07	2.86E-07	kBq
[E1540] Radio. H3 to air	273.09	202.91	196.13	kBq
[E1541] Radio. I129 to air	0.10834	0.080301	0.077249	kBq
[E1542] Radio. I131 air	0.038408	0.028519	0.028123	kBq
[E1543] Radio. I133 air	0.0059792	0.0044723	0.004417	kBq
[E1544] Radio. I135 air	0.0085463	0.0063941	0.0063138	kBq
[E1545] Radio. K40 air	0.040251	0.029833	0.026833	kBq
[E1546] Radio. Kr85 air	1.86E+06	1.38E+06	1.33E+06	kBq
[E1547] Radio. Kr85m air	10.868	8.0681	7.9729	kBq
[E1548] Radio. Kr87 air	3.4243	2.5372	2.4874	kBq
[E1549] Radio. Kr88 air	77.319	57.827	57.065	kBq
[E1550] Radio. Kr89 air	3.4543	2.5649	2.5374	kBq
[E1551] Radio. La140 air	4.85E-05	3.56E-05	3.31E-05	kBq
[E1552] Radio. Mn54 air	1.43E-05	1.04E-05	9.37E-06	kBq
[E1553] Radio. Nb95 air	2.17E-06	1.55E-06	1.26E-06	kBq
[E1554] Radio. Np237 air	1.99E-08	1.47E-08	1.42E-08	kBq
[E1555] Radio. Pa234m air	0.011927	0.00884	0.0084895	kBq
[E1556] Radio. Pb210 air	0.27468	0.20356	0.18929	kBq
[E1557] Radio. Pm147 air	0.010237	0.0075874	0.0072982	kBq

[E1558] Radio. Po210 air	0.39136	0.29006	0.26702 kBq
[E1559] Radio. Pu alpha air	0.001203	0.000892	0.0008578 kBq
[E1560] Radio. Pu238 air	2.67E-08	1.93E-08	1.67E-08 kBq
[E1561] Radio. Pu241 Beta air	0.033142	0.02456	0.023628 kBq
[E1562] Radio. Ra226 air	0.41101	0.30445	0.29084 kBq
[E1563] Radio. Ra228 air	0.0198	0.014681	0.01322 kBq
[E1564] Radio. Rn220 air	0.28035	0.10169	-0.32118 kBq
[E1565] Radio. Rn222 air	28817	21346	20519 kBq
[E1566] Radio. Ru103 air	2.46E-07	1.79E-07	1.62E-07 kBq
[E1567] Radio. Ru106 air	0.1203	0.089198	0.08578 kBq
[E1568] Radio. Sb124 air	3.20E-06	2.27E-06	1.80E-06 kBq
[E1569] Radio. Sb125 air	2.76E-06	2.05E-06	2.01E-06 kBq
[E1570] Radio. Sr89 air	2.60E-05	1.90E-05	1.72E-05 kBq
[E1571] Radio. Sr90 air	0.019893	0.014742	0.014185 kBq
[E1572] Radio. Tc99 air	8.43E-07	6.25E-07	6.01E-07 kBq
[E1573] Radio. Te123m air	3.86E-05	2.67E-05	1.85E-05 kBq
[E1574] Radio. Th228 air	0.01681	0.012463	0.011222 kBq
[E1575] Radio. Th230 air	0.13255	0.098175	0.09432 kBq
[E1576] Radio. Th232 air	0.010646	0.0078946	0.0071069 kBq
[E1577] Radio. Th234 air	0.011927	0.00884	0.0084895 kBq
[E1578] Radio. U alpha air	0.42686	0.31621	0.30379 kBq
[E1579] Radio. U234 air	0.14307	0.10604	0.10186 kBq
[E1580] Radio. U235 air	0.0069344	0.0051375	0.0049379 kBq
[E1581] Radio. U238 air	0.17194	0.12735	0.12103 kBq
[E1582] Radio. Xe131m air	15.69	11.623	11.382 kBq
[E1583] Radio. Xe133 air	1382.9	1031.4	1014.6 kBq
[E1584] Radio. Xe133m air	0.31314	0.2196	0.16467 kBq
[E1585] Radio. Xe135 air	376.59	280.39	276.54 kBq
[E1586] Radio. Xe135m air	103.03	76.487	75.55 kBq
[E1587] Radio. Xe137 air	2.1382	1.5852	1.5583 kBq
[E1588] Radio. Xe138 air	28.555	21.2	20.95 kBq
[E1589] Radio. Zn65 air	0.0001052	7.74E-05	7.30E-05 kBq
[E1590] Radio. Zr95 air	6.14E-07	4.30E-07	3.22E-07 kBq
[E1591] Sc (Scandium) air	5.83E-06	4.04E-06	4.47E-06 kg
[E1592] Si air	0.11084	0.080571	0.080231 kg
[E1593] Sr air	0.000635	0.0004643	0.0004897 kg
[E1594] Th (Thorium) air	1.04E-05	7.44E-06	7.74E-06 kg
[E1595] Ti (Titanium) air	0.0014074	0.0009991	0.0010181 kg
[E1596] U (Uranium) air	1.12E-05	8.26E-06	8.33E-06 kg
[E1597] Zr (Zirkonium) air	1.96E-05	1.09E-05	1.90E-05 kg
[E1598] heat air	-0.0016004	-0.0009161	-0.0013749 TJ
[E1599] Xylene air	0.026771	0.031167	0.022328 kg
[E1600] Acenaphthylene air	0.0001703	7.64E-05	0.0003741 kg
[E1601] Alkane air	0.009647	0.0087046	0.0092686 kg
[E1602] Alkene air	0.0008874	0.0008009	0.0008524 kg
[E1603] AOX air	0.0007773	0.0006419	0.0007137 kg
[E1604] Barite air	1.6686	1.4225	1.8669 kg
[E1605] BSB5 air	0.15508	0.12573	0.14062 kg
[E1606] Ethylene Dichloride air	6.27E-05	4.33E-05	7.80E-05 kg
[E1607] acid air	0.011356	0.0078327	0.015792 kg
[E1608] aluminium air	1.4566	0.83807	1.1772 kg
[E1609] berilium air	1.57E-06	1.16E-06	1.10E-06 kg

[E1610] calcium air	3.8549	3.1608	3.4971 kg
[E1611] Cs (Cesium) air	7.25E-05	6.58E-05	6.85E-05 kg
[E1612] Cyanide (CN) air	0.0017808	0.0013246	0.0016646 kg
[E1613] DOC air	0.016669	0.011046	0.02897 kg
[E1614] fat and oil air	1.4064	1.2613	1.3607 kg
[E1615] fatty acids as C air	0.37108	0.33606	0.35378 kg
[E1616] Glutaraldehyde air	0.0002058	0.0001755	0.0002302 kg
[E1617] Hexachloroethane air	1.40E-09	9.64E-10	1.73E-09 kg
[E1618] HOCl air	0.0026837	0.0017771	0.0009119 kg
[E1619] hydrocarbons air	0.057618	0.045586	0.098622 kg
[E1620] iod air	0.0072367	0.006564	0.0068406 kg
[E1621] K air	0.78508	0.56897	0.68592 kg
[E1622] metals water	0.21239	0.16805	0.36548 kg
[E1623] Methylene chloride water	0.0007879	0.0006643	0.0008714 kg
[E1624] Mg water	1.2327	0.73724	1.0021 kg
[E1625] MTBE water	6.14E-06	9.54E-06	5.76E-06 kg
[E1626] Fe water	1.583	1.116	1.4166 kg
[E1627] Fluoride water	0.041717	0.038489	0.040781 kg
[E1628] silver water	5.34E-05	4.93E-05	4.95E-05 kg
[E1629] Na water	33.808	36.107	31.754 kg
[E1630] OCl water	0.0026838	0.0017772	0.000912 kg
[E1631] PAH Polycyclic. Aromatic Hydrocarbons water	0.0009813	0.0009035	0.0009259 kg
[E1632] Radio. Ag110m water	0.13338	0.10046	0.10174 kBq
[E1633] Radio. Alpha-radiator water	9.95E-06	7.22E-06	6.33E-06 kBq
[E1634] Radio. Am241 water	0.04997	0.037035	0.035631 kBq
[E1635] Radio. Ba140 water	0.0018854	0.0014023	0.0013965 kBq
[E1636] Radio. C14 water	2.5249	1.8719	1.8003 kBq
[E1637] Radio. Cd109 water	1.09E-05	8.10E-06	8.06E-06 kBq
[E1638] Radio. Ce141 water	0.000281	0.000209	0.0002082 kBq
[E1639] Radio. Ce144 water	1.1441	0.84783	0.81592 kBq
[E1640] Radio. Cm alpha water	0.066147	0.049024	0.047166 kBq
[E1641] Radio. Co57 water	0.0019274	0.0014334	0.0014279 kBq
[E1642] Radio. Co58 water	0.80412	0.59925	0.59832 kBq
[E1643] Radio. Co60 water	12.005	8.9017	8.5967 kBq
[E1644] Radio. Cr51 water	0.041348	0.030751	0.030629 kBq
[E1645] Radio. Cs134 water	2.5684	1.9046	1.833 kBq
[E1646] Radio. Cs136 water	1.01E-05	7.51E-06	7.48E-06 kBq
[E1647] Radio. Cs137 water	23.629	17.522	16.862 kBq
[E1648] Radio. Fe59 water	3.33E-05	2.48E-05	2.47E-05 kBq
[E1649] Radio. H3 water	74827	55454	53362 kBq
[E1650] Radio. I129 water	7.2324	5.3602	5.1569 kBq
[E1651] Radio. I131 water	0.011341	0.0084699	0.0084802 kBq
[E1652] Radio. I133 water	0.0086151	0.0064071	0.0063817 kBq
[E1653] Radio. K 40 water	-0.10853	-0.095951	-0.14957 kBq
[E1654] Radio. La140 water	0.0003905	0.0002904	0.0002892 kBq
[E1655] Radio. Mn54 water	1.7279	1.2809	1.2334 kBq
[E1656] Radio. Mo99 water	0.0001317	9.79E-05	9.75E-05 kBq
[E1657] Radio. Na24 water	0.057934	0.043087	0.042918 kBq
[E1658] Radio. Nb95 water	0.0010686	0.0007947	0.0007915 kBq
[E1659] Radio. Np237 water	0.0031877	0.0023631	0.0022732 kBq
[E1660] Radio. Nucl. mixed water	8663.6	6582.5	6159.6 kBq
[E1661] Radio. Pa234m water	0.22079	0.16361	0.15715 kBq

[E1662] Radio. Pb 210 water	-0.08698	-0.076886	-0.11975 kBq
[E1663] Radio. Po 210 water	-0.08698	-0.076886	-0.11975 kBq
[E1664] Radio. Pu alpha water	0.19893	0.14742	0.14185 kBq
[E1665] Radio. Pu241 beta water	4.9382	3.6605	3.5212 kBq
[E1666] Radio. Ra 224 water	3.6161	3.2814	3.4178 kBq
[E1667] Radio. Ra 226 water	917.09	680.65	654.35 kBq
[E1668] Radio. Ra 228 water	7.2369	6.5642	6.8408 kBq
[E1669] Radio. Ru103 water	0.0006312	0.0004695	0.0004676 kBq
[E1670] Radio. Ru106 water	12.03	8.9198	8.578 kBq
[E1671] Radio. Sb122 water	0.0018854	0.0014023	0.0013965 kBq
[E1672] Radio. Sb124 water	0.056806	0.042554	0.042771 kBq
[E1673] Radio. Sb125 water	0.015382	0.011441	0.011394 kBq
[E1674] Radio. Spalt- u. Aktiv. prod. water	0.066298	0.046154	0.033236 kBq
[E1675] Radio. Sr89 water	0.0042549	0.0031644	0.0031522 kBq
[E1676] Radio. Sr90 water	2.4117	1.7873	1.7198 kBq
[E1677] Radio. Tc99 water	1.2649	0.93755	0.90198 kBq
[E1678] Radio. Tc99m water	0.0008871	0.0006598	0.0006571 kBq
[E1679] Radio. Te123m water	7.95E-05	5.91E-05	5.89E-05 kBq
[E1680] Radio. Te132 water	3.25E-05	2.42E-05	2.41E-05 kBq
[E1681] Radio. Th 228 water	14.472	13.14	13.679 kBq
[E1682] Radio. Th 232 water	-0.020261	-0.017916	-0.027917 kBq
[E1683] Radio. Th230 water	34.544	25.593	24.585 kBq
[E1684] Radio. Th234 water	0.22203	0.16448	0.15794 kBq
[E1685] Radio. U 238 water	0.63372	0.46337	0.42257 kBq
[E1686] Radio. U alpha water	14.416	10.674	10.253 kBq
[E1687] Radio. U234 water	0.2948	0.21842	0.20985 kBq
[E1688] Radio. U235 water	0.43957	0.32561	0.31281 kBq
[E1689] Radio. Y90 water	0.0002179	0.0001621	0.0001614 kBq
[E1690] Radio. Zn65 water	0.12238	0.091018	0.090654 kBq
[E1691] Radio. Zr95 water	0.1026	0.076042	0.073147 kBq
[E1692] Rb (Rubidium) water	0.0007254	0.0006583	0.0006854 kg
[E1693] salt water	2.1405	1.5307	1.5652 kg
[E1694] Sb water	6.13E-06	5.89E-06	1.74E-06 kg
[E1695] Se water	0.0073071	0.0042149	0.0059036 kg
[E1696] Si water	0.0010827	0.0008914	0.0011027 kg
[E1697] solved substances water	0.82706	0.62933	0.70293 kg
[E1698] Solvents (Cl) water	1.65E-05	1.67E-05	1.42E-05 kg
[E1699] Sr water	0.45548	0.40803	0.42822 kg
[E1700] Sulfite water	0.0027271	0.0040448	0.0024617 kg
[E1701] suspended substanses water	5.3479	4.5812	5.916 kg
[E1702] Ti water	0.085895	0.049627	0.069535 kg
[E1703] TOC water	30.201	26.114	24.335 kg
[E1704] Triethylene Glykol water	0.016669	0.011046	0.02897 kg
[E1705] volatile organic comp. as C water	0.025337	0.023	0.023946 kg
[E1706] W (wolfram) water	3.10E-05	2.30E-05	2.08E-05 kg
[E1707] Xylene water	0.007042	0.0063974	0.0067654 kg
[E1708] heat water	-0.0006908	-0.0005762	-0.0006933 TJ
[E1709] aluminium water	0.11333	0.095586	0.12529 kg
[E1710] C water	0.38271	0.32062	0.40813 kg
[E1711] calcium water	0.45319	0.38233	0.501 kg
[E1712] iron water	0.22665	0.19118	0.25068 kg
[E1713] mangane water	0.0045319	0.0038233	0.00501 kg

[E1714] N water	55.395	42.088	39.384	kg
[E1715] oil water	0.070075	0.062012	0.065932	kg
[E1716] oil biol. water	0.0048416	0.0037557	0.0043744	kg
[E1717] P water	0.0065833	0.0054251	0.0070187	kg
[E1718] S water	0.068008	0.057367	0.075192	kg
[E1719] chlorine water	0.029266	0.023157	0.050361	kg
[E1720] fluor water	0.01087	0.008601	0.018706	kg
[E1722] Te water	0.0001157	9.09E-05	0.0001164	kg
[E1723] heavy metals water	8.79E-19	6.68E-19	6.25E-19	kg
[E1724] metals water	7.35E-07	5.59E-07	5.23E-07	kg
[E1725] oil water	0.03575	0.027162	0.025417	kg
[E1726] HC water	1.77E-05	1.34E-05	1.26E-05	kg
[E1727] bromoxynil water	0.0042804	0.0032522	0.0030432	kg
[E1728] clopyralid water	0.0043056	0.0032714	0.0030611	kg
[E1729] lambda-cyhalothrin water	2.67E-05	2.03E-05	1.90E-05	kg
[E1730] sethoxydim water	0.0029208	0.0022192	0.0020766	kg
[E1731] bromoxynil water	0.016971	0.012894	0.012066	kg
[E1732] clopyralid water	0.0034747	0.00264	0.0024704	kg
[E1733] lambda-cyhalothrin water	0.0004155	0.0003157	0.0002954	kg
[E1734] sethoxidim soil	0.026186	0.019896	0.018618	kg
[E1735] bromoxynil soil	0.0001093	8.30E-05	7.77E-05	kg
[E1736] clopyralid soil	4.00E-05	3.04E-05	2.85E-05	kg
[E1737] lambda-cyhalothrin soil	1.16E-06	8.80E-07	8.23E-07	kg
[E1738] sethoxidim soil	0.0001498	0.0001138	0.0001065	kg

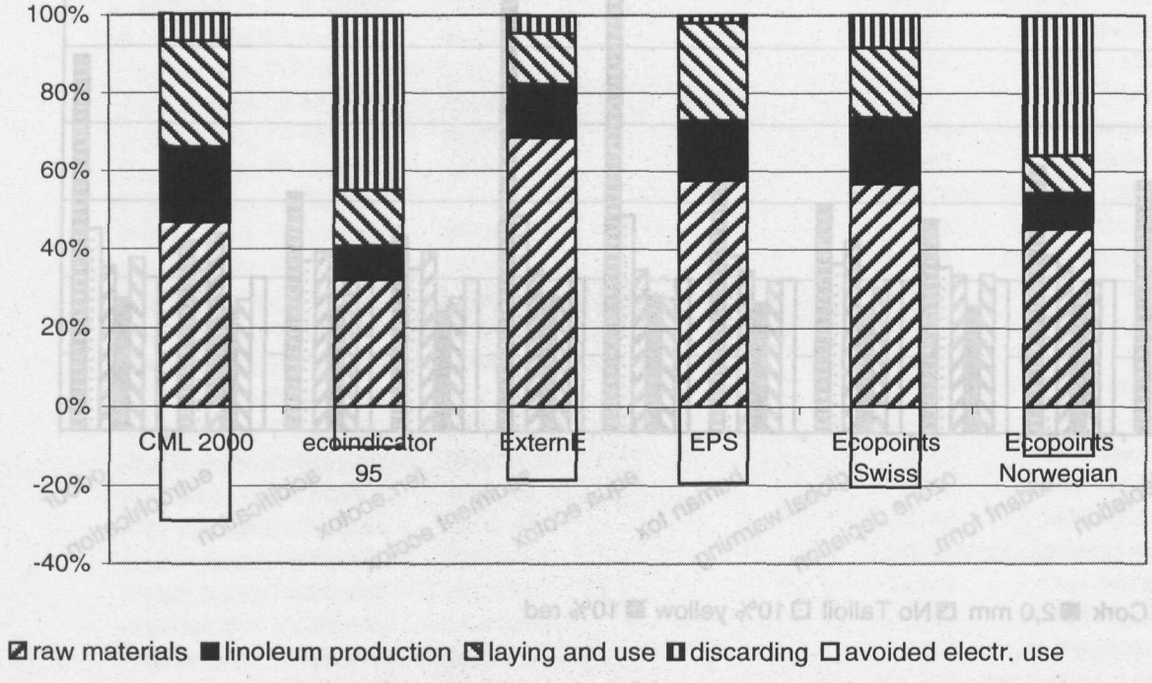

Figure 7. Environmental profile of the baseline system calculated with the Ecoindicator 95, split-up into life cycle stages

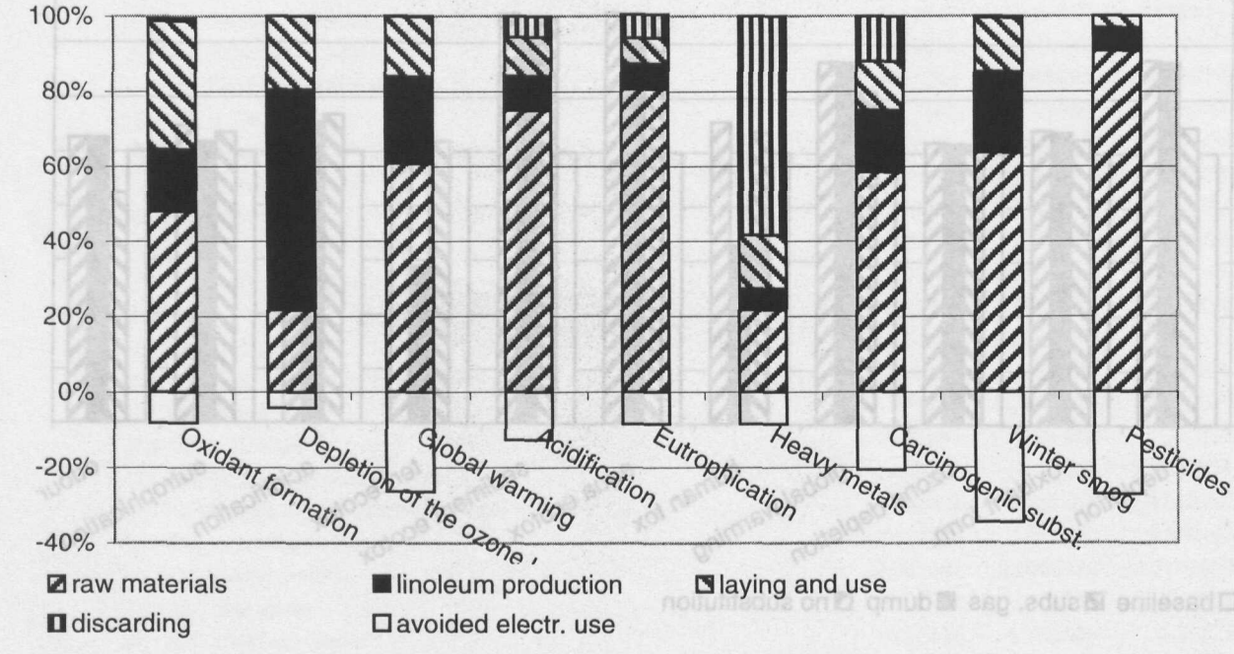

Figure 8. Total weighted results for the baseline system calculated with different methods

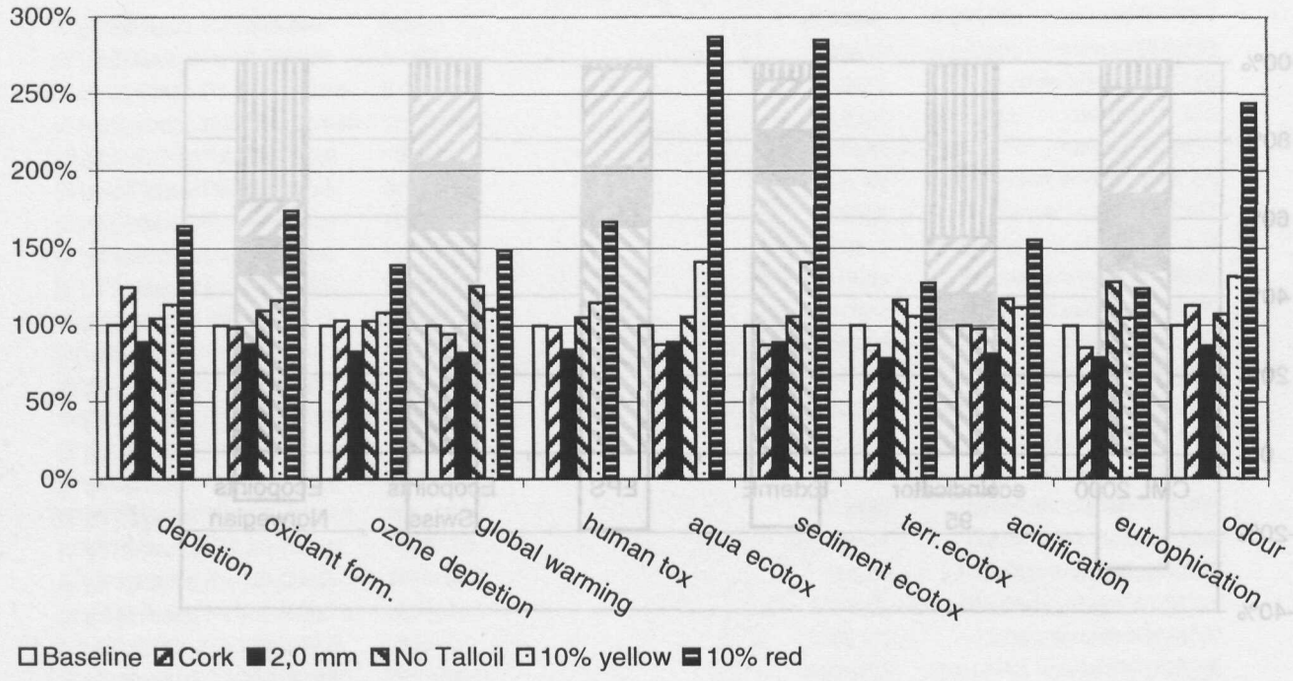

Figure 5. Environmental profile for the baseline system and five alternative scenarios related to differences in ingredients

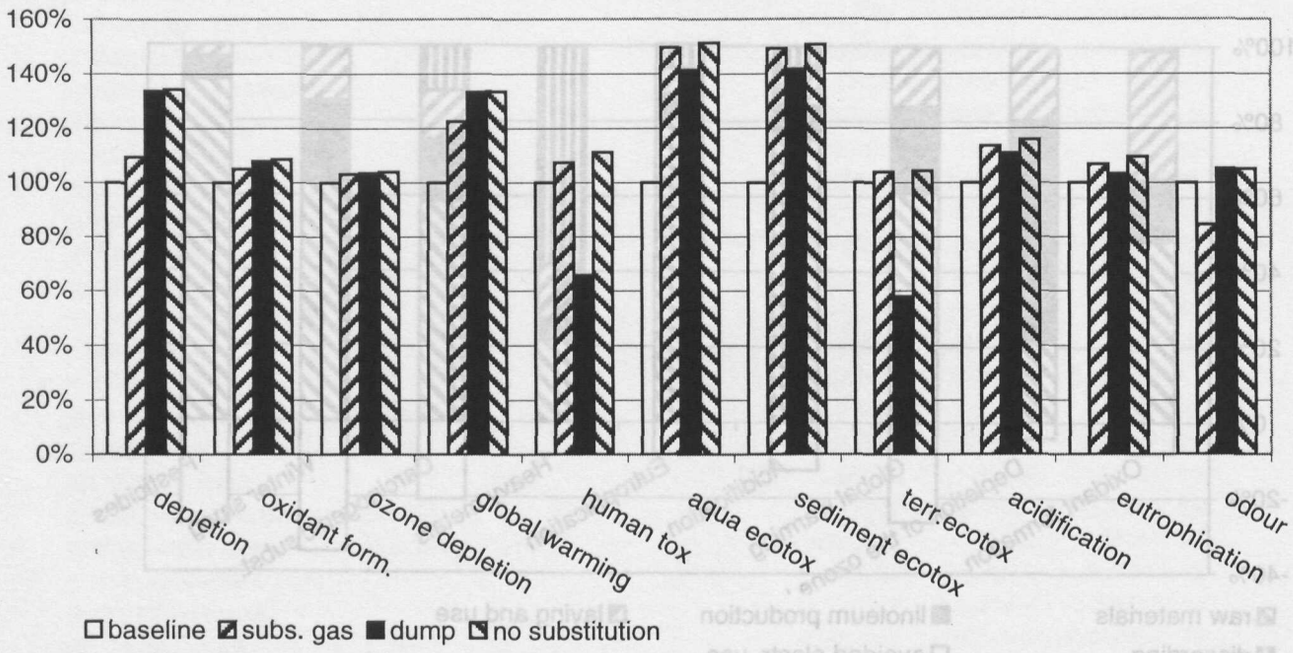

Figure 6. Environmental profile for the baseline system and three different scenarios related to handling linoleum waste

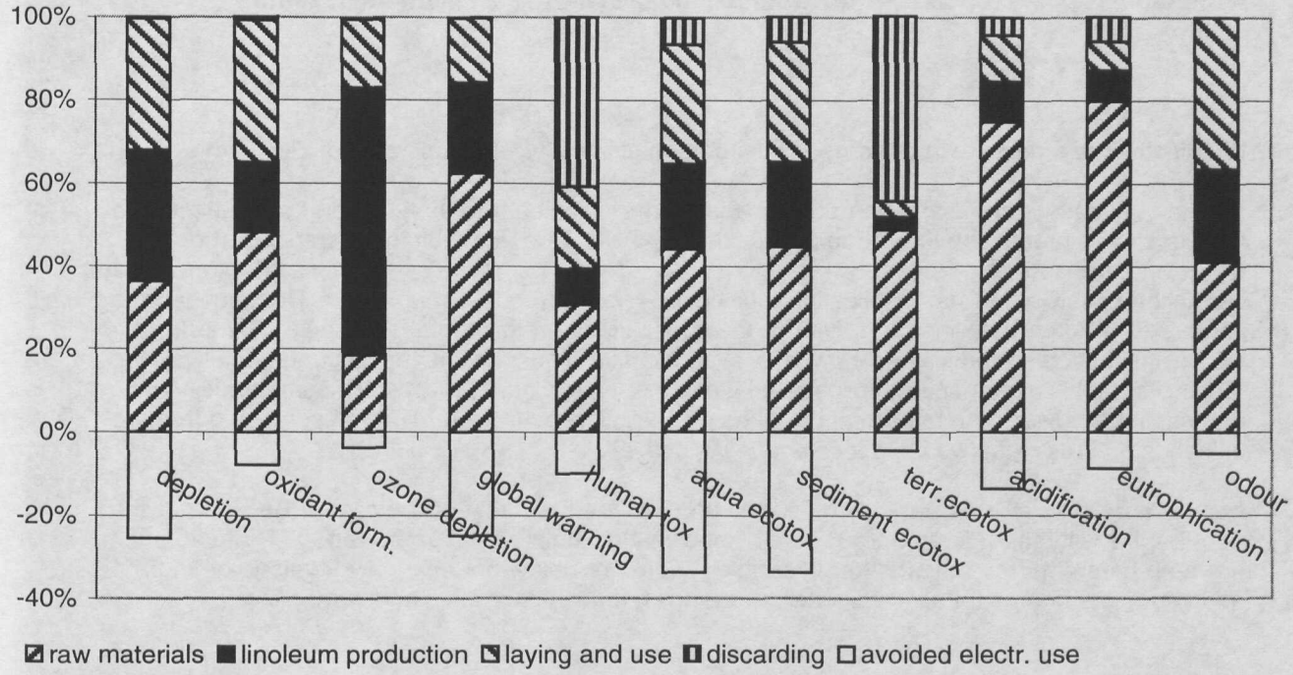

Figure 3. The contribution of life cycle stages to the category results

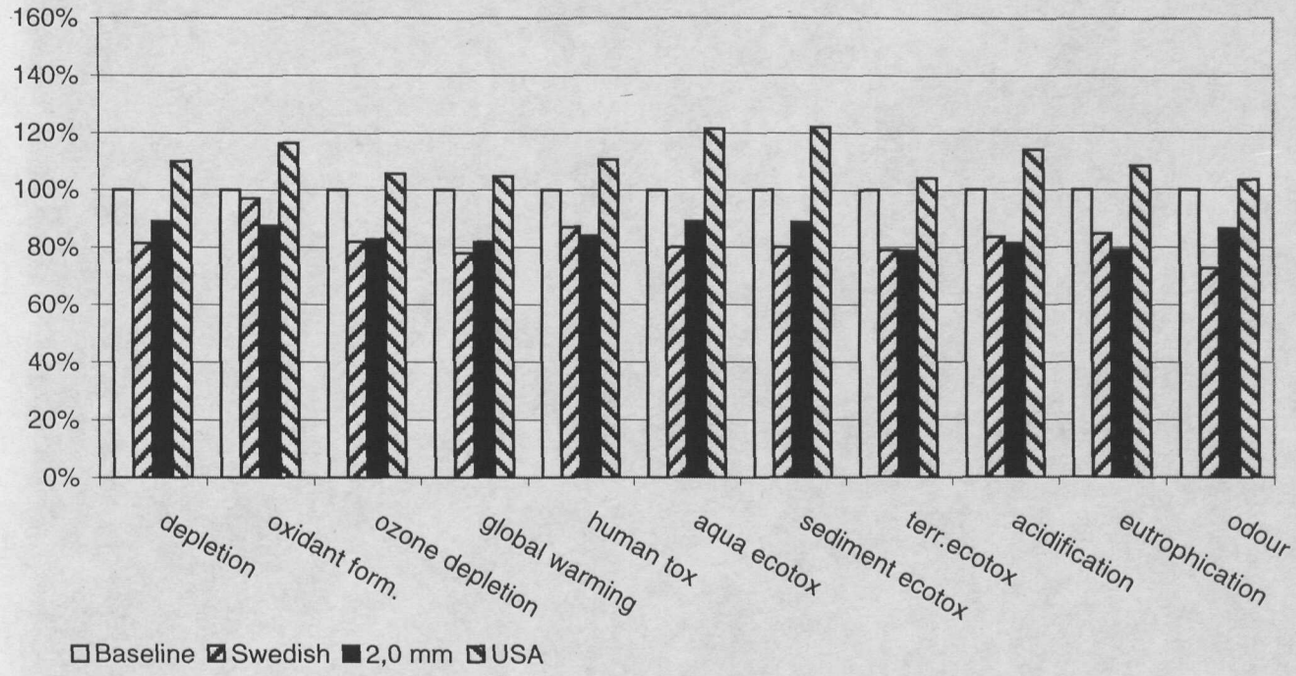

Figure 4. Environmental profile for the baseline system and three alternative scenarios related to the country of use

Addendum to CML report 151: Environmental life cycle assessment of linoleum

L.S.

We discovered a mistake in our report "Environmental Life Cycle Assessment of Linoleum".

This fault concerns the estimation of the transport from linoleum to the USA and only affects the USA scenario, production in Europe plus sales in the US. Due to a fault in the translation from m^2 to kg, the transport by freighter was a factor 3 to low (7.5 t/km instead of 21.5 t/km). The correction of this value has implications for figure 4 in the report, in which the USA scenario is compared with the baseline, and also for the conclusions on this topic. Transport to (and in) the USA with the corrected values now has a substantial influence on the environmental profile, ranging from 4% higher scores for terrestrial ecotoxicity and odour to 21-22% percent for aquatic and sediment toxicity. As the transport takes place mainly by freighter it is not surprising that the influence on those last two impact categories is highest.

Furthermore, figure 7 did not fully reflect the correct data and text of the report. Because of the poor print quality the figures 3 to 8 are all somewhat difficult to read in the report. The difference between different gray tones is hardly visible. Therefore below not only new versions of figure 4 and 7, but the figures for all five scenarios are given for easier reading and comparison .

The Authors
30 November 2000