



WORKING GROUP ON THE
EVALUATION OF THE HAZARDS OF
HARMFUL SUBSTANCES CARRIED BY
SHIPS
42nd session
Agenda item 8

EHS 42/8
1 March 2006
ENGLISH ONLY

REPORT OF THE FORTY-SECOND SESSION

1 INTRODUCTION

1.1 The forty-second session of the GESAMP Working Group on the Evaluation of the Hazards of Harmful Substances Carried by Ships was held at IMO Headquarters, London, from 20 to 24 February 2006 under the chairmanship of Dr. C.T. Bowmer. The list of members attending this session is shown in annex 1 and the approved agenda is shown in annex 2.

1.2 It was noted that the fifty-third session of the Marine Environment Protection Committee (MEPC) was held from 18-22 July October 2005 and, following instruction by MEPC 53, the GESAMP Reports and Studies No. 64 and the GESAMP/EHS Product Data Reporting Form had been placed on the IMO public domain website to facilitate easy access by industry.

1.3 The Working Group was informed that the Director of the IMO Marine Environment Division, in his capacity as the Administrative Secretary of GESAMP, had organized a meeting of representatives of the GESAMP sponsoring organizations to discuss the GESAMP review process in June 2005. The meeting concluded that:

- .1 the GESAMP mechanism and its future should not be linked to the Regular Process for global reporting and assessment of the state of the marine environment, formerly known as the "GMA-Process, and that GESAMP should continue irrespective of the decision on the Regular Process; and
- .2 with the exception of WHO and UNEP, the sponsoring organizations (UN, WMO, FAO, IAEA, IMO, UNIDO and UNESCO-IOC) supported the continuation of GESAMP, recognizing that the restructuring and financing of the new GESAMP were inter-related issues.

1.4 By way of follow-up action, on 22 September 2005 a meeting of the GESAMP Secretariat was convened to address the structuring and financing of the 'new GESAMP' and a further meeting was held from 27 February to 1 March 2006 to develop a programme of work for GESAMP, based on its mission statement and the strategic vision reflected in the 'new GESAMP', as well as the relevant financial arrangements. In this regard, the Working Group was informed of the agreement with the Swedish Government to provide funding for GESAMP to support the delivery of capacity building in marine sciences under the GESAMP umbrella.

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1.5 The Group was informed that MEPC 53 had agreed that a dedicated GESAMP-Ballast Water Working Group on Active Substances (GESAMP-BWWG) should be established for the approval of a ballast water management system using active substances, which would be financed through a fee scheme paid by industry.

1.6 The first meeting of the GESAMP-BWWG was convened from 23 to 27 January 2006. The GESAMP-BWWG developed methodologies and assessed the information to be supplied by industry to enable it to conduct its work. In addition, it reviewed two proposals for the approval of Active Substances in accordance with the terms of reference approved by MEPC 53 and accepted by the GESAMP Inter-Secretariat. The report on the outcome of the GESAMP-BWWG was reviewed by GESAMP on 17 February 2006 and will be submitted to MEPC 54 (20 to 24 March 2006) for its consideration.

1.7 The Working Group took note of the progress made on the revised MARPOL Annex III, which is expected to enter into force on 1 January 2010 and, in particular, noted that the Appendix on the identification of harmful substances in packaged form in the revised Annex III will be based on the criteria developed by the UN GHS.

2 OUTCOME OF THE *AD HOC* SUB-GROUP MEETING ON THE EVALUATION OF AQUATIC TOXICITY HAZARDS

2.1 The Group noted that the *ad hoc* (intersessional) meeting of the Aquatic Toxicology Sub-Group was held from 15 to 18 November 2005, generously funded by the Japanese Environment Ministry and hosted by the Shukutoko University, Tokyo. The report of the meeting was distributed to the Group as document EHS S7.

2.2 It was noted that the Sub-Group generated revised GESAMP Hazard Profiles for 59 products subject to the IBC Code, a number of which appear in the list of products omitted from the Code due to missing pollution/safety data or both, the results of which are included in annexes 3 and 4 respectively.

2.3 It was also noted that the Sub-Group had considered the groups of phthalates and adipates and were able to generate those parts of the hazard profiles related to aquatic toxicity based on information received from industry or by read-across. In so doing, the following hazard profiles which appeared in the list of products omitted from the revised IBC Code due to missing pollution and/or safety data were now complete:

- .1 Dinonyl phthalate;
- .2 Ditridecyl phthalate;
- .3 Diisonyl adipate; and
- .4 Ditridecyl adipate.

2.4 Noting that Di-n-hexyl adipate did not follow the trend of other adipates with regard to biodegradation, the Group agreed to retain the current profile for the product and to look into the matter at a later date.

2.5 The Sub-Group recalled that following completion of the hazard profile for pyrolysis gasoline, ESPH 11 had commented on the variability of the product. The Sub-Group noted that the hazard profile was based on compositional information provided at BLG 5 and that the

ESPH Working Group had agreed to defer its decision on the classification and assignment of the carriage requirements of pyrolysis gasoline until BLG 10 (3 to 7 April 2006), since more recent compositional information was to be made available.

2.6 Having considered this decision and in order to facilitate discussion at the next ESPH meeting, the Sub-Group recalled that originally a worse case rating was assigned to the product. Following re-examination of the compositional information presented at BLG 5, the Sub-Group re-evaluated the product using existing hazard profiles for each component proportionally and, using a weighted average approach based on the main components, assigned a new profile. During re-evaluation of the product, the Sub-Group noted that the greater the concentration of aliphatic compounds (predominately C8), the more toxic the product to marine organisms.

2.7 Having noted the Sub-Group's discussions, the Group agreed to adjust the profile for pyrolysis gasoline as shown in annexes 3 and 4.

2.8 The Group noted the consideration given by the Sub-Group to "polyols", following the receipt of aquatic toxicity data and information on the groupings and naming of these substances from industry, and agreed to take this information into account when discussing these products under agenda item 5.

2.9 Similarly, the Group agreed to consider under agenda item 3, the results of the deliberations and proposals by the Sub-Group on vegetable oils and their derivatives, as well as the issue of vegetable oil synonyms.

3 EVALUATION OF NEW SUBSTANCES PROPOSED FOR BULK TRANSPORT BY SHIPS

3.1 The Group considered the following new substances which had been submitted for evaluation by industry and Governments:

- .1 Acetonitrile (low purity grade);
- .2 Alkylbenzene distillation bottoms;
- .3 Cocoa butter;
- .4 Crude piperazine;
- .5 Dialkyl (C9-C10) phthalates;
- .6 Fatty acid methyl esters;
- .7 Hydrogenated starch hydrolysate;
- .8 Jeffamine D-230;
- .9 Jeffamine HK-511;
- .10 Maltitol syrup;
- .11 *N*-Methylaniline;
- .12 Molytrimer IDN 1111;
- .13 Potassium chloride brine
- .14 Tall oil, crude;
- .15 Tall oil pitch; and
- .16 Vegetable oils/derivatives including vegetable oil synonyms.

3.2 The resultant hazard profiles for these products are shown in annex 3.

3.3 In considering the various products, the Group agreed that for:

- .1 Dialkyl (C9-C10) phthalates, due to time constraints, the evaluation will be completed at its next meeting;
- .2 Jeffamine D-230, Jeffamine HK-511 and Molytrimer IDN 1111, a proper shipping name would be required and requested the Technical Secretary to liaise with the manufacturers in this regard;
- .3 Potassium chloride brine, the existing hazard profile for potassium chloride should apply. Similarly, the profile should also apply to the product, potassium chloride solution (10% or more), which appears in the list of products omitted from the revised IBC Code due to missing data (see annex 4); and
- .4 *N*-Methylaniline, which is not currently shipped in bulk, the manufacturer requested its evaluation since it may be shipped in the future.

3.4 The Group requested the Technical Secretary to contact those manufacturers from whom additional information may be needed to complete the hazard profiles.

Fatty Acid Methyl Esters

3.5 The APAG Sector Group of CEFIC had requested the Group to evaluate fatty acid methyl ester (FAME). Several requests had also been received to evaluate the hazard of specific FAME products under the name of their plant of origin. The Group considered that if FAME could be evaluated as a generic entry then all other potential FAME products could be dealt with, regardless of origin.

3.6 The Group began to develop a profile for FAME containing C6 to C18 methyl esters. However, it became apparent that the short-chained methyl esters were more harmful than the longer-chained ones, e.g. as in the case of eye irritation. It was, therefore, decided to develop the following two profiles:

- .1 Fatty acid methyl esters as requested by APAG; and
- .2 Fatty acid methyl esters (C14+) to cover the less corrosive/irritating long chain products;

	A1A	A1B	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Fatty acid methyl ester (EHS No.2362)	0	NI	0	R	2	NI	Ni	NI	NI	NI	NI		NI	Fp	NI
Fatty acid methyl ester C14+ (EHS No.2354)	0	NI	0	R	2	NI	0	(0)	(2)	2	1		NI	Fp	2

and to retain the following three profiles since they already existed as entries in the 1998 edition of the IBC Code:

- .3 Coconut fatty acid methyl esters;
- .4 Palm oil fatty acid methyl ester; and
- .5 Rapeseed oil fatty methyl esters.

Vegetable oils/derivatives

3.7 The Group noted that a number of vegetable oils and, in particular, derivatives had been submitted for evaluation. In view of the numerous submissions and the fact that some of these products could be covered by existing entries, the Group felt that consolidation of fatty acids, nitriles, alcohols and methyl esters into representative groupings would facilitate the evaluation of these products in the future. The Group carried out an inventory of the many vegetable oils and derivatives recently submitted, which is set out at annex 5, and agreed to carry out the evaluation of these products and to consolidate them into groupings at its next meeting.

3.8 The Group agreed that with regard to the submissions on genetically modified vegetable oils, i.e. soyabean oil, sunflower-seed oil and rapeseed oil, genetically modified vegetable oils could be considered as synonyms of the base vegetable oils, and that there was no need to generate separate entries in the Composite List of Hazard Profiles.

Vegetable oil synonyms

3.9 The Group noted that, at the request of the ESPH Working Group, a number of new synonyms for vegetable oils which had already been evaluated had been submitted for approval. The Group reiterated its view, expressed at EHS 41, that it could not check the identity of synonyms associated with vegetable oils as requested by ESPH 10 and ESPH 11 as this information was primarily restricted to the specific commercial trade of vegetable oils and some synonyms appear to be intended for Customs use or other regulatory purposes. The Group confirmed its view that the onus for providing correct synonyms to IMO rests with the industry submitting the data.

4 CORRESPONDENCE WITH THE INDUSTRY AND CONSIDERATION OF QUERIES FROM INDUSTRY RELATED TO EVALUATIONS

4.1 The Group noted that additional information on the following products had been received from industry with a request that it be taken into account when evaluating the products.

Alcohols (C12-C13) linear and alcohols (C14-C18) linear

4.2 Following a proposal by industry to have the following three alcohol entries:

- .1 Alcohols(C₈-C₁₁);
- .2 Alcohols(C₁₂-C₁₃)linear;
- .3 Alcohols(C₁₄-C₁₈) linear;

identified with the descriptors “linear and essentially linear primary alcohol”, the Group agreed to the following descriptors which, in its view, brought them in line with the original proposals submitted for consideration at EHS 41, and at the same time made them easier to locate in an alphabetical listing such as the Composite List of Hazard Profiles:

- .1 Alcohols (C₈-C₁₁), primary, linear and essentially linear;
- .2 Alcohols (C₁₂-C₁₃), primary, linear and essentially linear;
- .3 Alcohols (C₁₄-C₁₈), primary, linear and essentially linear.

4.3 The Group considered the A1 ratings for these alcohol entries and took into account information submitted by industry derived from the Canadian EPA PBT Screening Project. On the basis of this information and in particular the measured BCF data put forward by industry, the Group agreed to the following ratings for the three groupings: A1: 2; A1a: 5; A1b:2.

Blend TN-100

4.4 The Group noted that this product was assigned a complete hazard profile at EHS 41. The Group further noted that correspondence from the manufacturer indicated that the suggested change of name from Blend TN-100 to alkylbenzene mixtures (containing at least 50% of toluene) had been accepted. The Group considered additional information provided by industry and agreed that for inhalation toxicity, a value of 8800ppm for a 4hr exposure based on toluene (quoting Clayton and Clayton;1983) was not considered a suitable analogy for the product and hence retained the original rating of (2) in column C3, assigned at EHS 41. Similarly, it was agreed to retain the original ratings FE and 2 in columns E2 and E3. The Group requested the Technical Secretary to find out from the manufacturer how this product differs from pyegas or steam cracked naphtha.

N-[3-Chloro(2-hydroxypropyl)]trimethylammonium chloride solution (75% or less)

4.5 The Group recalled that at EHS 40, it had declined to give a rating under column B1 for this product. Past experience had led the Group to expect quaternary ammonium compounds to be toxic, and it had made a request to industry to provide information on marine aquatic toxicity studies. The Group noted that, based on test reports received from industry, the Sub-Group meeting in Japan had agreed to assign a rating of 1 in column B1 and confirmed this rating.

Coatex M 1083

4.6 The Group were informed that the manufacturers agreed to the suggested change of name to polyacrylic acid solution (40%). The Group were further informed that since it had last met, the product had been submitted to the eleventh session of the ESPH Working Group for classification under the IBC Code as its profile had been completed by EHS 41. The ESPH Working Group had agreed to the name polyacrylic acid solution (40% or less) for shipping purposes.

4.7 The Group were also informed that the manufacturers had responded to the request from the mammalian toxicologists to supply a copy of the BIBRA Toxicity Profile to which the manufacturers had referred in their original proposal.

2,2-Dimethylpropane-1,3-diol (molten or solution)

4.8 The Group, having noted the query raised at ESPH 11 concerning the rating assigned to column E2 of Fp, noted that the product is a solid with melting point of 31°C. However, information also indicated that the commercial product is carried as a solution (10% water) and hence the Group agreed to change the rating for the E2 column from Fp to FD.

Distilled Resin Oil

4.9 As the hazard profile for this substance had been completed at EHS 41, no request was made for further information. However, the Group noted that the manufacturer had provided additional information, stating that the product reacts with air to cause a potentially hazardous situation by virtue of its flash point of 45°C; that the water reactivity potential is low; that no inhibitor is necessary to prevent a hazardous reaction; and that no refrigeration is necessary to prevent a hazardous reaction. Whilst welcoming this additional information, the Group agreed to retain the hazard profile assigned at EHS 41.

Dodecylamine/tetradecylamine mixture and Dodecyl-, Tetradecyl-, Hexadecyl-dimethylamine mixture

4.10 The Group noted the comments by industry on the A1 ratings of 5 assigned on the basis of the log Pow to Dodecylamine/Tetradecylamine mixture and to the Dodecyl, Tetradecyl, Hexadecyl-dimethylamine mixture (listed as Alkyl (C12+) dimethylamine in the IBC Code), which appear in annex 4 of EHS 41/9.

4.11 The Group did not dispute the arguments presented by industry regarding the lack of transfer of long chain alkyl amines across cell membranes due to ionic charge at environmental pHs. Likewise, arguments such as the metabolism of long alkyl chain structures, which would reduce bioaccumulation, were also accepted. However, the Group had no means of assigning a rating for A1b on this basis. As there are no ratings in A1b to overwrite the ratings in A1a, the rating for A1 had to be based on A1a. The Group recalled that it had not used calculated BCF values in the past. The alternative given in GESAMP Reports & Studies 64 is to provide measured BCF data in this case for at least one of the significant members of this group - this would increase confidence in assigning a lower bioaccumulation rating in the future.

Ethoxylated tallow amine, glycol mixture

4.12 The Group noted the complex history of this product and the various data and information it had received over the years, including the most recent information provided by the manufacturer. It recalled that various entries had been considered with specific amine cut-offs for inclusion in the Composite List of Hazard Profiles. Based on a comprehensive review of the data, the Group were able to complete the hazard profile and were confident that the profile assigned would cover all concentrations of the amine in the product.

Lecithin (soyabean)

4.13 Whilst noting that EHS 41 had completed the profile for this product and subsequently ESPH 11 had classified it under the revised IBC Code, the Group revisited the hazard profile of this product on the basis of information on biodegradation received from industry and confirmed the rating of R in column A2.

Microsilica slurry [Silica slurry]

4.14 The Group noted that the data provided by industry confirmed the original ratings.

Oxygenated aliphatic hydrocarbon mixture

4.15 The Group confirmed the ratings of 1 in columns D1 and D2 and changed the rating in column C3 from (0) to (1), using the rationale for estimating inhalation toxicity developed at EHS 41.

Shea butter

4.16 The Group took note of the information received from the manufacturer on the detailed composition of crude shea butter as well as the exchange of correspondence with the manufacturer regarding the testing of the substance for biodegradation. The Group agreed to retain the profile as agreed at EHS 41 pending receipt of the test results, noting that for transport purposes, IMO could provide a worse case of an “NR” rating in A2 in any case.

5 RE-EVALUATION OF THE PRODUCTS IN THE IBC CODE WITH MISSING POLLUTION AND/OR SAFETY DATA

5.1 The Group recalled that following publication by IMO of the list of products (MSC/Circ.1128 - MEPC/Circ.423) omitted from the amended IBC Code due to missing safety/pollution data or both, it had completed a number of profiles of products from the list (EHS 41/9 paragraphs 6.1 to 6.4 and annex 7), and that ESPH 11 had assigned appropriate pollution category, ship type and carriage requirements.

5.2 The Group also recalled that following the *ad hoc* (intersessional) meeting of the Aquatic Toxicology Sub-Group, held in Japan from 15 to 18 November 2005, additional product profiles had been completed. The IMO’s Assembly (21 November to 2 December 2005) had requested the IMO Secretariat to prepare an updated list of products with missing safety/pollution data or both, which was published for information purposes and annexed to the report of the Technical Committee to the Plenary. Subsequently, this list was made available on IMO’s public domain website.

5.3 The Group was informed by the Technical Secretary, that during IMO’s Assembly an article had appeared in Lloyds List entitled “Chemical code will act as litmus test for what can be carried by sea”, which underlined the need for manufacturers of these products to supply the missing data as soon as possible.

5.4 In this context, the Group noted that, in the period prior to the deadline of 31 December 2005, set by IMO, substantial additional data had been received from industry which enabled the hazard profiles of a number of products in the list of products omitted from the amended IBC Code to be completed (see annex 4).

5.5 The Group also noted that the information received could be categorized into:

- .1 information received on substances which still have missing data;
- .2 information received on substances which have a complete profile as a result of the work of the *ad hoc* (intersessional) meeting of the Aquatic Toxicology Sub-Group in Japan November 2005;

- .3 information received on substances which have a complete profile as a result of the work carried out by EHS 41 and which have subsequently been classified under the revised IBC Code by ESPH 11 in October 2005; and
- .4 information received on one substance in the amended IBC Code.

5.6 In view of the fact that the deadline for the receipt of information from industry was the 31 December 2005, the Group felt compelled to consider all data received by the deadline and revisited those profiles which had been completed before that date.

5.7 The Group noted that most of the information received had, in fact, resided with industry for quite some time, and that it could have been provided earlier in response to the numerous requests from IMO to the industry to supply the missing data.

Diethylene glycol phthalate

5.8 Having completed the profile on diethylene glycol phthalate, the Group requested the Technical Secretary to draw the attention of IMO to the fact that whereas its evaluation was based on the structure of a single moiety, the information indicated that the product shipped was in oligomeric form and hence, the product name was not a true reflection of the product shipped.

Polyethylene polyamines

5.9 Information received from different manufacturers under the name polyethylene polyamines was divided into two groups: one contained more than 50% paraffin (C5-C20), whilst the other referred to the substance itself.

5.10 The Group's toxicologists noted that both products were mixtures of different polyethylene polyamines and that the composition of both differed significantly. It was decided to issue one profile reflecting the hazards as appropriate in each column, under which both substances could be carried. It was noted that the rating in A1 is based on the paraffin solvent. Should manufacturers require separate entries, the Group were of the opinion that appropriate names and supporting data would have to be provided.

Polyols

5.11 The Group recalled that the evaluation of polyols had proceeded slowly over the years on the basis of information provided by industry regarding the appropriate grouping and naming of these products. Following the receipt of new information from industry on specific polyols, the Group carried out the following inventory of the entries it had evaluated over time and assigned ratings, as appropriate:

Polyether Polyols																
Polypropylene glycol																
EHS No.	CAS No.	A1A	A1B	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
1159	25322-69-4	0	NI	0	(NR)	1	NI	1	0	(1)	1	1		NI	D	1
Glycerol propoxylated																
EHS No.	CAS No.	A1A	A1B	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
2346	25791-96-2	0	NI	0	NR	1	NI	1	0	(2)	1	0		NI	D	0
Glycerol propoxylated and ethoxylated																
EHS No.	CAS No.	A1A	A1B	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
2276	9082-00-2	0	NI	0	NR	3	0	(1)	0	(2)	1	1		NI	SD	0
Glycerol ethoxylated (new entry)																
EHS No.	CAS No.	A1A	A1B	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
2360	31694-55-0	0	NI	0	(NR)	0	NI	NI	NI	NI	NI	NI		NI	NI	NI
Trimethylol propane propoxylated																
EHS No.	CAS No.	A1A	A1B	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
2274	25723-16-4	0	NI	0	(NR)	1	0	0	0	(1)	0	1		NI	NI	NI
Blend of glycerol/sucrose propoxylated and ethoxylated (new entry)																
EHS No.	CAS No.	A1A	A1B	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
2361	117847-97-2	0	NI	0	(NR)	(3)	(0)	NI	NI	NI	NI	NI		NI	NI	NI
Polyalkylene oxide polyols						See paragraph 5.12 below.										
Polyether (molecular weight 2000+)						See paragraph 5.12 below.										
Glycerol polyalkoxylate						See paragraph 5.12 below.										

5.12 The Group noted that the products: polyalkylene oxide polyols, polyether (molecular weight 2000+), and glycerol polyalkoxylate, were contained in the IBC Code as well as in the list of products omitted from the IBC Code due to missing data. These descriptors are so broad as to allow almost any polyol to be carried under each entry. As a result, the Group only evaluated the new data and the individual entries for which a clear molecular structure and hazard data was provided.

5.13 The above ratings show that all entries are considered not to bioaccumulate, and not to be readily biodegradable (as indicated in the submission, they are probably inherently biodegradable). The above substances are not restricted by a descriptor of molecular weight. Test data indicate that some lower molecular weight grades (MW <1000) may be readily biodegradable, but higher molecular weight and less biodegradable grades can be carried under these entries. As a result, an NR in brackets had been given to even those substances with ready biodegradability data, as well as

to those for which no data has been provided. The acute aquatic toxicity is not always the same and the further use of grouped names may prove difficult.

5.14 Glycerol propoxylated and ethoxylated was used as an analogy to provide ratings for the “Blend of glycerol/sucrose propoxylated and ethoxylated”.

5.15 The Group recognized that further work was required on this set of products and agreed to continue this work at its next session.

6 ANY OTHER BUSINESS

Publication of the GESAMP/EHS Composite List of Hazard Profiles

6.1 The Group recalled that at EHS 41 it had noted the demand from different stakeholders for the GESAMP/EHS Composite List of Hazard Profiles. It agreed that it would be useful to publish a list of substances and their associated hazard profiles which have been evaluated on the basis of the revised GESAMP Hazard Evaluation Procedure, and that the Composite List of Hazard Profiles should be made available on the Internet.

6.2 Furthermore, the Group noted that the eleventh session of the ESPH Working Group recognized the need to publish the GESAMP/EHS Composite List of Hazard Profiles in view of its use in the provisional assessment of liquid substances transported in bulk (MEPC/Circ.265 as revised), and requested the Secretariat to publish the List using their IBC Code product names, where applicable, and their associated hazard profiles, if possible, by the end of the 2005. However, the Group was informed by the Technical Secretary that in view of the *ad hoc* intersessional meeting of the Aquatic Toxicology Sub-Group in November 2005, closely followed by the main Working Group meeting, he thought it best that the results of both these meetings should be reflected in the Composite List of Hazard Profiles as this would ensure that the information is as complete as possible.

6.3 The Group considered that the Composite List, featuring the hazard profiles, was substantially complete but that some gaps in hazard profiles still require attention.

6.4 The Group recalled that at EHS 40, 41 and 42 it had, upon request of IMO, focussed mainly on substances with incomplete profiles and that due to time constraints had refrained from continuing the regular process of cross checking ratings of chemicals even though it was felt that in the interests of data integrity and the accuracy of the ratings this exercise was necessary and should be completed in the future.

6.5 Following the work carried out individually by some members of the Group to review the Composite List of Hazard Profiles for gaps and omissions in hazard profiles and CAS numbers, the Group agreed to publish the Composite List as part of the main report of the meeting (see annex 3).

Submission of data to the GESAMP/EHS Working Group and IMO

6.6 The Group, once again, drew the attention of industry to the procedure following submission of a new product to the GESAMP/EHS Working Group. Submission to the GESAMP/EHS Working Group is the first step in the classification of a product under the IBC Code and once the product has a complete profile, it should be submitted to the IMO for the assignment of pollution category, ship type and carriage requirements under the IBC Code. Manufacturers should contact their national Administration or the appropriate non-governmental organizations in consultative status with IMO for guidance if they are not familiar with the process. More information on the process can be found at <http://www.imo.org>: click on *marine environment*: click on *chemical reporting forms*.

OECD on aquatic environmental hazards

6.7 The Group noted the draft summary record of the OECD Expert Group Meeting on Aquatic Environmental Hazards (31 January to 1 February 2006, Arlington, Virginia, United States), which considered the further development of a system for applying chronic aquatic toxicity data as part of the GHS. The Group further noted that the 1 mg/L cut-off value for “no observed effect concentration (NOEC)” and the system of using surrogate data, as used by IMO in the revised Annex II of MARPOL and amended IBC code (for assigning Pollution Category and Ship Type respectively), had been retained as part of the proposed system. Furthermore, this system included high cut-off values (not used by IMO) for chronic aquatic toxicity in combination with ready biodegradability. The Group expressed its concern that, from a scientific point of view, as mentioned in GESAMP Reports and Studies No. 64, 2002, chronic toxicity was a stand-alone criterion and that combining it with other criteria such as biodegradability ventured into the area of risk assessment.

Expression of appreciation

6.8 The Chairman informed the Group that Professor Meiko Wakabayashi was unable to attend the meeting. The Group expressed its gratitude for her contribution to making the Aquatic Toxicology Sub-Group held in Japan from 15 to 18 November 2005 a success.

7 FUTURE WORK PROGRAMME AND DATES OF THE FOLLOWING SESSIONS

7.1 The Group noted that, due to time constraints, further work was required to address the following group of existing products:

- .1 fatty acids, alcohols, nitriles and methyl esters;
- .2 vegetable acid oils and distillates;
- .3 polyether polyols;
- .4 correspondence related to missing data for products which were submitted prior to 31 December 2005; and
- .5 dialkyl (C9-C10) phthalates.

7.2 This would have a bearing on the classification of products under the revised IBC Code and would therefore need to be reported to the next intersessional meeting of the ESPH Working Group to be held later this year. **In this regard, the Group felt the necessity of having another meeting in 2006 and, subject to obtaining financial support for holding such a meeting, agreed that the**

date of the next regular meeting of the Group would be from 6 to 8 June 2006. In which case, correspondence related to this meeting covering the topics 7.1.1 to 7.1.5 above should reach the *Technical Secretary of the GESAMP/EHS Working Group not later than 1 May 2006. In the event that no funding is secured, the next regular meeting would be tentatively held from 23 to 27 April 2007. **Submissions for the April 2007 regular meeting should reach the *Technical Secretary of the GESAMP/EHS Working Group not later than 15 March 2007.**

8 CONSIDERATION AND ADOPTION OF THE REPORT

8.1 The Group adopted the report and, having thanked members for the considerable amount of effort, including extensive preparatory work, *inter alia*, the collection, collation and evaluation of data to generate the *Revised Hazard Profiles*, the Chairman closed the session on Friday, 24 February 2006 at 13:00 hrs.

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ANNEX 1

**LIST OF MEMBERS ATTENDING THE FORTY-SECOND SESSION
OF THE GESAMP/EHS WORKING GROUP**

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ANNEX 2

**AGENDA FOR THE FORTY-SECOND SESSION OF THE
GESAMP/EHS WORKING GROUP**

- 1 Adoption of the agenda
 - Matters arising from IMO and other Organizations relevant to the activities of the Working Group
- 2 Outcome of the *ad hoc* sub-group meeting on the evaluation of aquatic toxicity hazards
- 3 Evaluation of new substances proposed for bulk transport by ships
- 4 Correspondence with the industry and consideration of queries from industry related to evaluations
- 5 Re-evaluation of the products in the IBC Code with missing pollution and/or safety data
- 6 Any other business
- 7 Future work programme and dates of the following sessions
- 8 Consideration and adoption of the report

ANNEX 3 - GESAMP/EHS COMPOSITE LIST

New GESAMP Hazard Profiles

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Acetic acid	13	0	0	0	R	1	NI	1	1	1	3C	3		NI	D	3
	64	RTECS No		AF1225000				CAS No:								64-19-7
Acetic anhydride	12	0	0	0	R	1	NI	1	0	2	3	3	A	NI	D	3
	65	RTECS No		AK1925000				CAS No:								108-24-7
Acetochlor	2047	3	2	2	NR	4	NI	1	0	(1)	0	0	S	NI	S	2
	66	RTECS No		AB5457000				CAS No:								34256-82-1
Acetone	15	0	0	0	R	0	0	0	0	0	1	2		NT	DE	2
	67	RTECS No		AL3150000				CAS No:								67-64-1
Acetone cyanohydrin	14	0	0	0	R	4	NI	3	4	3	(3)	(3)		NI	D	3
	68	RTECS No		OD9275000				CAS No:								75-86-5
Acetonitrile	16	0	0	0	R	1	NI	1	1	2	1	2		NI	D	2
	69	RTECS No		AL7700000				CAS No:								75-05-8
Acetonitrile (Low purity grade)	2333	0	NI	0	R	3	NI	1	1	2	1	2		NI	D	2
	2876	RTECS No						CAS No:								
Acrylamide solution (50% or less)	23	0	0	0	R	2	0	2	2	(2)	1	2	CMNS	NI	D	3
	70	RTECS No		AS3325000				CAS No:								79-06-1
Acrylic acid	24	0	0	0	R	4	NI	2	2	2	3C	3		NI	D	3
	71	RTECS No		AS4375000				CAS No:								79-10-7
Acrylonitrile	25	0	2	2	NR	3	0	2	2	2	2	2	CSM	NT	DE	3
	72	RTECS No		AT5250000				CAS No:								107-13-1
Acrylonitrile-Styrene copolymer dispersion in polyether polyol	1432	NI	0	0	NI	1	NI	0	(0)	(0)	0	(0)		NI	S	0
	73	RTECS No						CAS No:								9003-54-7
Adiponitrile	26	0	0	0	R	1	NI	3	(3)	3	3	(3)		NI	FD	3
	74	RTECS No		AV2625000				CAS No:								111-69-3

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3	
Alachlor technical (90% or more)	1488	3	3	3	NI	4	1	1	0	(2)	1	0	CS	NI	S	3	
	75	RTECS No			AE1225000	CAS No:			15972-60-8								
Alcoholic beverages, n.o.s.	293	0	0	0	R	0	0	0	0	0	0	1		NI	D	1	
	85	RTECS No			CAS No:												
Alcohol (C9-C11) poly (2.5-9) ethoxylate	2094	3	3	3	R	3	NI	1	0	(2)	(2)	(2)		NI	D	2	
	2209	RTECS No			CAS No:												
Alcohol (C6-C17) (secondary) poly(3-6)ethoxylates	722	4	3	3	R	4	2	0	(0)	(3)	3	2		NI	D	3	
	81	RTECS No			CAS No:												
Alcohol (C6-C17) (secondary) poly(7-12)ethoxylates	295	3	3	3	R	4	1	1	0	(3)	3	3		NI	D	3	
	80	RTECS No			CAS No:												
Alcohol (C12-C16) poly(1-6)ethoxylates	294	5	3	3	R	4	1	0	0	(2)	2	2		NI	FD	2	
	77	RTECS No			CAS No:			68131-39-5									
Alcohol (C12-C16) poly(20+)ethoxylates	1482	4	(3)	(3)	R	2	0	(0)	(0)	(2)	2	1		NI	D	2	
	78	RTECS No			CAS No:												
Alcohol (C12-C16) poly(7-19)ethoxylates	1481	4	3	3	R	4	1	1	0	(3)	3	3		NI	D	3	
	79	RTECS No			CAS No:												
Alcohols (C13+)	2039	5	2	2	R	4	1	0	0	0	(1)	(1)		NI	Fp	2	
	86	RTECS No			CAS No:			90604-31-2									
Alcohols (C8-C11), primary, linear and essentially linear	2279	(3)	NI	(3)	(R)	(3)	(1)	(0)	(0)	(2)	(2)	(2)		NI	Fp	2	
	2887	RTECS No			CAS No:												
Alcohols (C12-C13), primary, linear and essentially linear	2294	5	NI	5	R	4	(1)	0	0	(1)	1	1		NI	Fp	2	
	2950	RTECS No			CAS No:												
Alcohols (C14-C18), primary, linear and essentially linear	2293	5	NI	5	R	0	1	0	0	(1)	1	1		NI	Fp	2	
	2951	RTECS No			CAS No:			67762-30-5									
Alkanes (C6-C9)	2202	(5)	NI	(5)	(R)	(4)	NI	(0)	(0)	(1)	(2)	(2)	N	NI	FE	2	
	88	RTECS No			CAS No:												

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Iso- and cyclo-alkanes (C10-C11)	2203 393	(5)	NI	(5)	NI	(0)	(0)	(0)	(0)	(1)	(1)	(0)		NI	NI	1
		RTECS No						CAS No:								
Iso- and cyclo-alkanes (C12+)	2204 394	(5)	NI	(5)	NI	(0)	NI	0	0	(1)	NI	NI		NI	NI	1
		RTECS No						CAS No:			112-40-3					
n-Alkanes (C10+)	296 471	(5)	NI	(5)	(R)	(0)	(0)	(0)	(0)	(1)	(1)	(0)	A	NI	F	3
		RTECS No						CAS No:								
Alkaryl polyethers (C9-C20)	1974 90	4	NI	4	NR	3	NI	0	0	(3)	2	2		NI	S	2
		RTECS No						CAS No:			26027-38-3					
Alkenyl (C11+) amide	1858 838	3	NI	3	(NR)	4	NI	0	(0)	(1)	0	1		NI	Fp	2
		RTECS No						CAS No:								
Alkenyl (C16-C20) succinic anhydride	298 2336	0	0	0	NR	1	NI	0	0	(2)	2	(2)	S	NI	FD	3
		RTECS No						CAS No:								
Alkyl acrylate-vinylpyridine copolymer in toluene	299 94	2	2	2	R	2	0	0	0	(2)	2	2	RNA	NI	F/Fp	3
		RTECS No						CAS No:								
Alkyl(C8+)amine, Alkenyl (C12+) acid ester mixture	1433 98	NI	NI	NI	NI	1	NI	(0)	(0)	NI	NI	NI	S	NI	Fp	3
		RTECS No						CAS No:								
Alkylaryl phosphate mixtures (more than 40% Diphenyl tolyl phosphate, less than 0.02% ortho-isomers)	2267 280	4	4	4	R	4	4	0	0	(0)	NI	NI		NI	S	NI
		RTECS No						CAS No:			26444-49-5					
Alkylated (C4-C9) hindered phenols	2273 2575	0	2	0	NR	1	0	1	0	(2)	1	1		NI	Fp	2
		RTECS No						CAS No:								
Alkylbenzene, alkylindane, alkylindene mixture (each C12-C17)	1872 103	0	4	4	NR	0	NI	0	0	0	0	2		NI	FE	2
		RTECS No						CAS No:								
Alkyl benzene distillation bottoms	300 3106	0	2	2	NR	0	(3)	0	0	1	1	1		NI	Fp	2
		RTECS No						CAS No:								
Alkylbenzene mixtures (containing at least 50% of toluene)	2303 2909	(2)	(2)	(2)	(R)	(3)	(0)	0	0	(2)	2	2	ACMNR	NI	FE	2
		RTECS No						CAS No:			68527-23-1					

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Alkyl (C3-C4) benzenes	2206 91	(3)	NI	(3)	R	4	NI	0	0	(2)	(2)	(1)		NI	FE	2
		RTECS No						CAS No:								
Alkyl (C5-C8) benzenes	2207 92	5	4	4	NI	4	NI	0	0	(2)	(2)	(1)		NI	F	2
		RTECS No						CAS No:								
Alkyl(C9+)benzenes	1783 100	0	4	4	NR	1	NI	0	(0)	(1)	(1)	(1)		NI	F	1
		RTECS No						CAS No:								
Alkyl (C11-C17) benzene sulphonic acid	1739 101	NI	NI	3	R	3	1	1	(1)	(2)	(1)	(1)		NI	D	2
		RTECS No						CAS No:			27176-87-0					
Alkylbenzene sulphonic acid, sodium salt solution	301 102	3	3	3	R	3	1	1	(1)	(3)	2	3		NI	FD	3
		RTECS No			DB4370000			CAS No:			42615-29-2					
Alkyl (C12+) dimethylamine	2248 2485	5	NI	5	R	5	2	1	(1)	(3)	3C	3		NI	F	3
		RTECS No						CAS No:								
Alkyl dithiocarbamate (C19-C35)	2236 2538	0	NI	0	NI	1	NI	0	0	(0)	0	0		NI	S	0
		RTECS No						CAS No:								
Alkyldithiothiadiazole (C6-C24)	1981 104	5	NI	5	NR	1	NI	0	0	(0)	0	0		NI	NI	0
		RTECS No						CAS No:								
Alkyl ester copolymer (C4-C20)	1986 2202	NI	0	0	NR	0	NI	0	0	(0)	0	0		NI	Fp	2
		RTECS No						CAS No:								
Alkyl (C8-C10)/(C12-C14):(40% or less/60% or more) polyglucoside solution (55% or less)	2134 2248	3	NI	3	R	3	0	0	0	(3)	2	3		NI	D	3
		RTECS No						CAS No:			141464-42-8					
Alkyl (C8-C10)/(C12-C14):(60% or more/40% or less) polyglucoside solution(55% or less)	2135 2246	3	NI	3	R	2	0	0	0	(2)	2	2		NI	D	2
		RTECS No						CAS No:			141464-42-8					
Alkyl (C7-C9) nitrates	8 93	4	NI	4	NR	4	NI	0	0	(3)	2	(3)	S	NI	F	3
		RTECS No						CAS No:			27247-96-7					
Alkyl(C7-C11)phenol poly(4-12) ethoxylate	1063 97	4	NI	4	NR	3	1	0	0	(2)	2	1		NI	D	2
		RTECS No						CAS No:								

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Alkyl (C8-C40) phenol sulphide	1985 2253	0	NI	0	NR	0	NI	0	0	(1)	1	1		NI	FD	1
			RTECS No					CAS No:								
Alkyl (C8-C9) phenylamine in aromatic solvents	2096 2200	2	NI	2	NR	3	NI	(0)	(0)	(2)	2	2		NI	S	2
			RTECS No					CAS No:								
Alkyl (C9-C15) phenyl propoxylate	2188 2430	0	NI	0	NR	0	NI	0	0	(2)	2	2		NI	FD	2
			RTECS No					CAS No:								
Alkyl (C8-C10)/(C12-C14):(50%/50%) polyglucoside solution (55% or less)	2133 2247	3	NI	3	R	2	0	0	0	(3)	2	(3)		NI	D	3
			RTECS No					CAS No:								
Alkyl (C12-C14) polyglucoside solution (55% or less)	2137 2249	3	NI	3	R	3	0	0	0	(3)	2	3		NI	D	3
			RTECS No					CAS No:						110615-47-9		
Alkyl (C8-C10) polyglucoside solution (65% or less).	2136 2245	1	NI	1	R	2	0	0	0	(2)	2	2		NI	D	2
			RTECS No					CAS No:						68515-73-1		
Alkyl(C10-C20, saturated and unsaturated) phosphite	2108 96	0	NI	0	R	1	NI	0	0	(0)	0	0		NI	Fp	2
			RTECS No					CAS No:								
Alkyl sulphonic acid ester of phenol	1878 1701	5	NI	5	NR	0	NI	0	(0)	(0)	0	0		NI	S	0
			RTECS No					CAS No:						91082-17-6		
Allyl alcohol	28 105	0	0	0	R	4	NI	2	3	4	2	3	A	NI	D	3
			RTECS No			BA5075000		CAS No:						107-18-6		
Allyl chloride	478 106	1	1	1	R	3	NI	1	0	2	1	3	T	NI	E	3
			RTECS No			UC7350000		CAS No:						107-05-1		
Aluminium chloride (30% or less)/Hydrochloric acid (20% or less) solution	336 110	Inor	NI	2	Inorg	3	1	1	NI	3	(3C)	3		NI	D	3
			RTECS No					CAS No:								
Aluminium sulphate solution	2205 111	Inor	Inor	2	Inorg	3	1	1	(0)	(3)	(2)	(3)		NI	D	3
			RTECS No					CAS No:								
2-(2-Aminoethoxy) ethanol	75 37	0	0	0	NR	1	0	0	1	(3)	3	3		NI	D	3
			RTECS No			KJ6125000		CAS No:						929-06-6		

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Aminoethyldiethanolamine/Aminoethylethanolamine solution	74 113	Inor	0	0	NR	1	0	1	(1)	(3)	(3B)	(2)	S	NI	D	3
		RTECS No						CAS No:								
Aminoethyl ethanolamine	68 112	0	0	0	NR	1	0	0	0	0	3B	2	S	NI	D	3
		RTECS No			KJ6300000			CAS No:								111-41-1
N-Aminoethylpiperazine	88 472	0	0	0	NR	1	NI	0	2	(3)	3	3	S	NI	D	3
		RTECS No			TK8050000			CAS No:								140-31-8
2-Amino-2-hydroxymethyl-1,3-propanediol solution (40% or less)	89 38	0	NI	0	NI	1	NI	0	0	NI	NI	NI		NI	D	0
		RTECS No			TY2900000			CAS No:								77-86-1
2-Amino-2-methyl-1-propanol	90 39	0	0	0	NR	1	NI	0	0	(0)	NI	NI		NI	DE	0
		RTECS No			UA5950000			CAS No:								124-68-5
Ammonia aqueous (28% or less)	91 114	0	0	0	R	3	2	1	(2)	3	3	3		NI	DE	3
		RTECS No			BO0875000			CAS No:								1336-21-6
Ammonium bisulphite solution (70% or less)	1730 115	NI	NI	NI	NI	1	NI	NI	NI	NI	2	2		NI	D	2
		RTECS No			WT3595000			CAS No:								10192-30-0
Ammonium hydrogen phosphate solution	98 117	0	0	0	Inorg	1	NI	0	0	0	(1)	(1)		NI	D	1
		RTECS No						CAS No:								7783-28-0
Ammonium lignosulphonate solutions	2086 118	0	NI	0	NR	0	NI	0	(0)	(0)	0	0		NI	D	0
		RTECS No						CAS No:								8061-53-8
Ammonium nitrate solution (93% or less)	1912 119	Inor	0	0	Inorg	1	NI	0	0	(2)	1	2		NI	D	2
		RTECS No						CAS No:								
Ammonium polyphosphate solution	1764 120	Inor	0	0	Inorg	1	NI	0	0	0	NI	NI		NI	D	0
		RTECS No						CAS No:								10-34-0
Ammonium sulphate solution	99 121	0	0	0	Inorg	1	(0)	0	(0)	(0)	0	0		NI	D	0
		RTECS No			BS4500000			CAS No:								7783-20-2
Ammonium sulphide solution (45% or less)	310 122	Inor	0	0	Inorg	3	NI	1	0	(2)	2	2	N	NI	D	2
		RTECS No			BS4900000			CAS No:								12124-99-1

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Ammonium thiocyanate (25% or less)/Ammonium thiosulphate (20% or less) solution	1732 123	Inor	0	0	Inorg	1	NI	1	NI	NI	NI	NI		NI	D	1
		RTECS No						CAS No:								
Ammonium thiosulphate solution (60% or less)	312 124	Inor	0	0	Inorg	1	NI	0	(0)	(1)	(1)	(1)		NI	D	1
		RTECS No			XN6465000			CAS No:						7783-18-8		
Amyl acetate (all isomers)	255 125	2	2	2	NR	2	NI	0	(0)	0	1	1	S	NT	FED	2
		RTECS No			AJ1925000			CAS No:						628-63-7		
n-Amyl alcohol	1110 473	1	1	1	(R)	1	0	1	0	(3)	2	3		NI	FED	3
		RTECS No			SB9800000			CAS No:						71-41-0		
Amyl alcohol, primary	965 126	1	1	1	(R)	1	0	1	0	(2)	2	2		NI	FED	2
		RTECS No			EL5425000			CAS No:						71-41-0		
sec-Amyl alcohol	1111 637	1	1	1	R	1	0	0	(0)	(2)	2	2		NI	D	2
		RTECS No			SA4900000			CAS No:						6032-29-7		
tert-Amyl alcohol	964 685	1	1	1	R	1	0	1	1	1	3	2		NI	D	3
		RTECS No			SC0175000			CAS No:						75-85-4		
tert-Amyl methyl ether	2141 2210	1	NI	1	NI	4	NI	1	0	(2)	0	1		NI	ED	2
		RTECS No						CAS No:						994-05-8		
Aniline	261 127	0	0	0	R	3	2	2	2	3	1	3	CTS	NT	FD	3
		RTECS No			BW6650000			CAS No:						62-53-3		
Animal and fish acid oils and distillates, n.o.s., including:	263 128	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	S	NI	Fp	3
		RTECS No			ED0780000			CAS No:						8001-85-2		
Apple juice	275 130	0	NI	0	R	0	0	0	0	0	0	0		NI	D	0
		RTECS No						CAS No:								
Aryl polyolefins (C11-C50)	1979 131	NI	NI	0	NR	0	NI	0	0	0	0	0		NI	Fp	2
		RTECS No						CAS No:								
Aviation alkylates (C8 paraffins and iso-paraffins BPT 95 - 120°C)	286 132	(5)	NI	(5)	(R)	(4)	NI	0	0	(0)	(0)	(0)		NI	FE	1
		RTECS No						CAS No:								

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Barium long chain (C11-C50) alkaryl sulphonate	1978 2370	4	NI	4	NR	3	NI	2	0	(2)	0	0		NI	S	2
		RTECS No					CAS No:					61790-48-5				
Benzene and mixtures having 10% benzene or more (i)	324 133	2	1	1	R	2	NI	1	0	0	2	2	CTM	NT	E	3
		RTECS No CY1400000					CAS No:					71-43-2				
Benzene sulphonyl chloride	320 134	1	1	1	R	(1)	NI	1	(2)	(3)	3	3		NI	SD	3
		RTECS No DB8750000					CAS No:					98-09-9				
Benzenetricarboxylic acid, trioctyl ester	1733 136	0	0	0	NR	0	NI	0	(0)	2	1	1		NI	Fp	2
		RTECS No					CAS No:									
Benzyl acetate	348 138	1	NI	1	R	3	1	1	0	2	1	1		NI	SD	2
		RTECS No AF5075000					CAS No:					140-11-4				
Benzyl alcohol	349 139	1	NI	1	R	2	NI	1	1	2	2	2		NI	SD	2
		RTECS No DN3150000					CAS No:					100-51-6				
Benzyl chloride	352 140	NI	1	1	R	3	1	1	NI	3	2	3	CSA	NI	S	3
		RTECS No XS8925000					CAS No:					100-44-7				
N,N-bis(2-hydroxyethyl) oleamide	2110 2201	5	NI	5	NR	NI	NI	0	0	(2)	2	2		NI	Fp	2
		RTECS No					CAS No:									
Blend of glycerol/sucrose propoxylated and ethoxylated	2361 3124	0	NI	0	(NR)	(3)	(0)	NI	NI	NI	NI	NI		NI	NI	NI
		RTECS No					CAS No:									
Borax	359 143	Inor	0	0	Inorg	1	0	0	0	(1)	1	1	R	NI	S	3
		RTECS No VZ2275000					CAS No:					1303-96-4				
Boric acid	360 2254	Inor	0	0	Inorg	1	0	0	(0)	(1)	1	1	R	NI	S	3
		RTECS No ED4550000					CAS No:					10043-35-3				
Brake fluid base mix: Poly(2-8)alkylene (C2-C3) glycols/Polyalkylene (C2-C10) glycols monoalkyl (C1-C4) ethers and their borate esters	2358 144	(1)	NI	(1)	(R)	(1)	(0)	0	0	0	2	2		NI	D	0
		RTECS No					CAS No:									
Brominated epoxy resin in acetone		NI	NI		NI	NI	NI	NI	NI	NI	NI	NI		NI	NI	NI
	3069	RTECS No					CAS No:									

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Bromochloromethane	2084 145	1	1	1	NR	1	NI	0	0	0	1	0		NI	SD	1
		RTECS No			PA5250000	CAS No:			74-97-5							
1-Bromopropane	2229 2696	2	NI	2	NI	NI	NI	0	(0)	0	(2)	(2)		NI	SD	2
		RTECS No				CAS No:			106-94-5							
Butene oligomer	386 146	0	NI	0	NR	(4)	0	0	0	0	0	1		NI	FE	2
		RTECS No				CAS No:			72317-18-1							
Butyl acetate (all isomers)	387 147	1	NI	1	R	2	NI	0	0	2	0	1		NI	FED	2
		RTECS No			AF7350000	CAS No:			123-86-4							
Butyl acrylate (all isomers)	390 148	2	NI	2	R	3	NI	1	1	1	2	2	SA	NI	FED	3
		RTECS No			UD3150000	CAS No:			141-32-2							
n-Butyl alcohol	381 474	0	(0)	0	R	0	NI	0	0	0	2	3		NT	D	3
		RTECS No			EO1400000	CAS No:			71-36-3							
sec-Butyl alcohol	383 638	0	(0)	0	R	0	NI	0	0	0	0	2		NT	D	2
		RTECS No			EO1750000	CAS No:			78-92-2							
tert-Butyl alcohol	384 686	0	0	0	NR	1	NI	0	0	0	1	3		NT	D	3
		RTECS No			EO1925000	CAS No:			71-36-3							
Butylamine (all isomers)	392 154	0	NI	0	R	2	NI	2	2	3	3C	3		NI	DE	3
		RTECS No			EO2975000	CAS No:			109-73-9							
Butylbenzene (all isomers)	1774 155	4	NI	4	NI	4	1	0	0	(2)	2	1		NI	Fp	2
		RTECS No			CY9070000	CAS No:			104-51-8							
Butyl benzyl phthalate	398 149	4	4	4	R	4	2	0	0	(0)	(0)	(0)	R	NI	S	3
		RTECS No			TH9990000	CAS No:			85-68-7							
Butyl butyrate (all isomers)	399 150	2	NI	2	NI	2	NI	0	0	(1)	1	NI		NI	FE	2
		RTECS No			ES8120000	CAS No:			109-21-7							
Butyl/Decyl/Cetyl/Eicosyl methacrylate mixture	2295 153	(5)	NI	(5)	(NR)	(3)	NI	0	0	0	2	2		NI	FE	2
		RTECS No				CAS No:			97-88-1							

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Butylene glycol	402	0	NI	0	R	1	NI	1	0	0	0	0		NI	D	1
	156	RTECS No		EK0525000		CAS No:								110-63-4		
1,2-Butylene oxide	403	0	NI	0	NR	2	NI	1	1	2	1	1	C	NI	DE	3
	8	RTECS No		EK3675000		CAS No:								106-88-7		
n-Butyl ether	578	3	3	3	NR	2	NI	0	0	0	1	1		NI	FE	2
	475	RTECS No		EK5425000		CAS No:								142-96-1		
Butyl methacrylate	409	2	NI	2	NR	1	NI	0	0	0	2	2	S	NI	FE	2
	151	RTECS No		OZ3675000		CAS No:								97-88-1		
Butyl octyl phthalate	410	5	NI	5	(R)	0	2	0	0	(1)	1	1	R	NI	Fp	3
	2749	RTECS No				CAS No:								85-69-8		
n-Butyl propionate	1483	2	NI	2	R	2	NI	0	0	0	1	1		NI	FED	2
	476	RTECS No		UE8245000		CAS No:								590-01-2		
Butyl stearate	413	0	NI	0	NI	0	NI	0	NI	NI	NI	NI		NI	Fp	2
	152	RTECS No		WI2900000		CAS No:								123-95-5		
Butyraldehyde (all isomers)	416	1	NI	1	R	2	0	0	1	0	3	3		NI	DE	2
	157	RTECS No		ES2275000		CAS No:								123-72-8		
Butyric acid	418	0	NI	0	R	2	0	0	1	0	3A	3		NI	D	3
	158	RTECS No		ES5425000		CAS No:								107-92-6		
gamma-Butyrolactone	420	0	NI	0	R	(3)	NI	1	(0)	0	0	1	C	NI	D	3
	360	RTECS No		LU3500000		CAS No:								96-48-0		
Calcium alkyl (C9) phenol sulphide/Polyolefin phosphorosulphide mixture	1435	NI	NI	NI	NR	4	NI	0	0	(0)	NI	NI		NI	NI	0
	160	RTECS No				CAS No:										
Calcium carbonate slurry	2016	Inor	0	0	Inorg	1	NI	0	(0)	(2)	1	2		NI	S	2
	161	RTECS No		FF9335000		CAS No:								471-34-1		
Calcium hydroxide slurry	431	Inor	0	0	Inorg	1	NI	0	(0)	(2)	1	2		NI	S	2
	162	RTECS No		EW2800000		CAS No:								1305-62-0		

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Calcium hypochlorite solution (15% or less)	2073 163	Inor	0	0	Inorg	(4)	NI	1	0	1	3A	3		NI	D	3
		RTECS No			NH3485000			CAS No:						7778-54-3		
Calcium hypochlorite solution (more than 15%)	432 164	Inor	0	0	Inorg	5	NI	1	0	1	3A	3		NI	D	3
		RTECS No			NH3485000			CAS No:						7778-54-3		
Calcium lignosulphonate solutions	2087 165	0	NI	0	NR	0	NI	0	(0)	(0)	0	0		NI	D	0
		RTECS No						CAS No:								
Calcium long-chain alkaryl sulphonate (C11-C50)	1973 169	NI	0	0	NR	0	NI	0	0	(1)	1	1	S	NI	FD	2
		RTECS No						CAS No:						61789-86-4		
Calcium long-chain alkyl(C5-C10) phenate	2106 168	0	NI	0	NR	2	NI	0	0	(0)	0	0		NI	FD	1
		RTECS No						CAS No:								
Calcium long-chain alkyl(C11-C40) phenate	2097 167	0	NI	0	NR	0	NI	0	0	(1)	1	1		NI	NI	1
		RTECS No						CAS No:								
Calcium long-chain alkyl phenate sulphide (C8-C40)	1756 170	0	NI	0	NR	0	NI	0	0	(2)	(2)	(2)	S	NI	Fp	3
		RTECS No						CAS No:								
Calcium long-chain alkyl phenolic amine (C8-C40)	1728 171	NI	NI	NI	NR	0	NI	0	0	(1)	1	(1)		NI	Fp	2
		RTECS No						CAS No:								
Calcium long-chain alkyl salicylate (C13+)	70 166	0	NI	0	NR	2	NI	0	0	(1)	(1)	(1)	S	NI	Fp	3
		RTECS No						CAS No:						114959-46-5		
Calcium nitrate/Magnesium nitrate/Potassium chloride solution	1734 173	Inor	0	0	Inorg	1	0	0	(0)	(1)	(1)	1		NI	D	1
		RTECS No						CAS No:						10124-37-5		
Calcium nitrate solutions (50% or less)	1803 172	Inor	0	0	Inorg	0	NI	0	(0)	(1)	1	1		NI	D	1
		RTECS No			EW2985000			CAS No:						10124-37-5		
Camphor oil	1897 174	NI	NI	NI	NI	NI	NI	2	NI	(2)	1	NI		(T)	FE	2
		RTECS No			EX1490000			CAS No:						8008-51-3		
epsilon-Caprolactam (molten or aqueous solutions)	436 310	0	NI	0	R	1	0	1	1	4	1	2		NI	D	3
		RTECS No			CM3675000			CAS No:						105-60-2		

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Caramel solutions	175	NI	NI		NI	NI	NI	NI	NI	NI	NI	NI		NI	NI	NI
		RTECS No						CAS No:								
Carbolic oil	437	(3)	3	(3)	(NR)	(3)	(1)	2	2	3	3	3	ATNCM	NI	FED	3
	176	RTECS No						CAS No:			88465-00-3					
Carbon disulphide	439	2	1	1	NR	3	NI	2	(3)	4	3A	2	RN	NI	SD	3
	177	RTECS No			FF6650000			CAS No:			75-15-0					
Carbon tetrachloride	1296	2	2	2	NR	3	0	0	0	0	1	1	CT	NI	S	3
	178	RTECS No			FG4900000			CAS No:			56-23-5					
Cashew nut shell oil (untreated)	443	0	NI	0	R	0	NI	(0)	(0)	(2)	2	(1)	S	NI	Fp	3
	179	RTECS No						CAS No:			8007-24-7					
Castor oil (containing less than 10% free fatty acids)	2314	0	NI	0	R	(2)	NI	0	0	(1)	1	1	1	NI	Fp	2
	3044	RTECS No						CAS No:								
Castor oil (containing less than 2% free fatty acids)	442	0	NI	0	R	(2)	NI	0	0	(1)	1	1		NI	Fp	2
	2773	RTECS No			FI4100000			CAS No:			8001-79-4					
Cetyl/Eicosyl methacrylate mixture	445	0	NI	0	(NR)	(0)	NI	0	(0)	(1)	(1)	(1)		NI	Fp	2
	180	RTECS No						CAS No:								
Chlorinated paraffins (C10-C13)	2021	5	5	5	NR	5	2	0	0	(1)	1	1	C	NI	S	3
	181	RTECS No						CAS No:			85535-84-8					
Chlorinated paraffins (C10-C13) (60% chlorine or less)	2020	5	5	5	NR	5	3	(0)	(0)	(1)	(1)	(1)	C	NI	S	3
	2832	RTECS No						CAS No:			85535-84-8					
Chlorinated paraffins (C14-C17) (with 50% chlorine or more, and less than 1% C13 or shorter chains)	2112	5	4	4	NR	6	3	0	0	(2)	2	2	C	NI	S	3
	182	RTECS No						CAS No:			85535-85-9					
Chlorinated paraffins (C18+) with any level of chlorine	2024	0	4	4	NR	0	2	0	0	(1)	(1)	(1)	C	NI	S	3
	183	RTECS No						CAS No:			63449-39-8					
Chloroacetic acid (80% or less)	450	0	NI	0	R	2	0	2	3	(4)	3C	3	A	NI	D	3
	184	RTECS No			AF8575000			CAS No:			79-11-8					

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Chlorobenzene	456	2	2	2	NR	3	0	1	0	1	2	0	2	NI	S	2
	185	RTECS No			CZ0175000			CAS No:			108-90-7					
Chloroform	1328	1	1	1	NR	2	0	2	0	2	1	1	CT	NI	SD	3
	186	RTECS No			FS9100000			CAS No:			67-66-3					
Chlorohydrins (crude)	463	0	NI	0	R	0	NI	(2)	(2)	(3)	(3A)	3	CS	NI	D	3
	187	RTECS No			TY4025000			CAS No:			96-24-2					
N-(3-Chloro-2-hydroxypropyl)trimethyl ammonium chloride solution (75% or less)	2286	0	0	0	NR	1	NI	0	0	(2)	0	(2)	SC	NI	D	3
	2579	RTECS No						CAS No:			3327-22-8					
4-Chloro-2-methylphenoxyacetic acid, dimethylamine salt solution	1536	2	NI	2	NI	2	NI	1	0	2	1	1	S	0	S	2
	62	RTECS No						CAS No:								
o-Chloronitrobenzene	467	2	2	2	NR	3	NI	2	2	2	1	1		NI	S	2
	533	RTECS No			CZ0855000			CAS No:			25167-93-5					
1-(4-Chlorophenyl)-4,4- dimethyl-pentan-3-one	1772	3	3	3	NR	3	NI	0	0	(1)	1	0		NI	S	1
	21	RTECS No						CAS No:								
2- or 3-Chloropropionic acid	474	0	NI	0	R	1	NI	1	(3)	2	3A	3		NI	D	3
	36	RTECS No			UE8570000			CAS No:			598-78-7					
Chlorosulphonic acid	479	Inor	0	0	Inorg	2	NI	1	0	2	1	1		NI	D	2
	188	RTECS No			FX5730000			CAS No:			7790-94-5					
m-Chlorotoluene	481	3	NI	3	NR	2	NI	2	0	2	1	1		NI	S	2
	426	RTECS No			XS8990000			CAS No:			108-41-8					
o-Chlorotoluene	480	3	3	3	NR	3	1	2	0	2	1	1		NI	S	2
	534	RTECS No			XS9000000			CAS No:			95-49-8					
p-Chlorotoluene	482	3	3	3	NR	3	0	0	0	2	1	1		NI	S	2
	551	RTECS No			XS9010000			CAS No:			106-43-4					
Chlorotoluenes (mixed isomers)	480	3	3	3	NR	3	1	2	0	2	1	1		NI	S	2
	189	RTECS No			XS9000000			CAS No:			95-49-8					

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Choline chloride solutions	485	0	NI	0	R	1	NI	0	(0)	(0)	0	0		NI	D	0
	190	RTECS No		KH2975000			CAS No:			67-48-1						
Citric acid (70% or less)	493	0	NI	0	R	1	0	0	(0)	(3)	1	3		NI	D	3
	748	RTECS No		GE7350000			CAS No:			77-92-9						
Clay slurry	495	Inor	0	0	Inorg	0	0	0	0	0	0	0		NI	S	0
	191	RTECS No					CAS No:									
Coal slurry	498	Inor	0	0	Inorg	0	0	0	0	0	0	0		NI	S	0
	192	RTECS No					CAS No:									
Coal tar	499	(4)	4	4	NR	3	1	0	0	0	2	2	CMR	(T)	S	3
	193	RTECS No		GF8600000			CAS No:			65996-93-2						
Coal tar naphtha solvent	500	3	NI	3	NR	3	NI	0	0	(1)	1	1	C	(T)	FE	3
	194	RTECS No		DE3030000			CAS No:			8030-30-6						
Coal tar pitch (molten)	491	3	(3)	(3)	NR	4	2	0	0	(1)	1	0	CM	NI	S	3
	195	RTECS No		GF8655000			CAS No:			65996-93-2						
Cobalt naphthenate in solvent naphtha	501	NI	NI	NI	NR	3	NI	0	(0)	(1)	NI	1	C	NI	FE/F	3
	196	RTECS No					CAS No:									
Cocoa butter	2342	0	NI	0	R	0	NI	(0)	(0)	(1)	(0)	(1)		NI	Fp	0
	3096	RTECS No					CAS No:			8002-31-1						
Coconut oil (containing less than 5% free fatty acids)	503	0	NI	0	R	1	NI	0	(0)	(1)	0	1		NI	Fp	2
	2772	RTECS No		GG6040000			CAS No:			8001-31-8						
Coconut oil fatty acid	505	4	0	0	(R)	0	NI	0	(0)	(1)	(1)	(1)		NI	Fp	2
	197	RTECS No					CAS No:			61788-47-4						
Coconut oil fatty acid methyl ester	506	5	0	0	NI	0	NI	(0)	(0)	(0)	(0)	(1)		NI	Fp	1
	198	RTECS No					CAS No:			61788-59-8						
Copper salt of long chain (C17+) alkanolic acid	2111	0	NI	0	(R)	2	NI	0	0	(0)	0	0		NI	Fp	2
	2214	RTECS No					CAS No:									

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Corn Oil (containing less than 10% free fatty acids)	521 2781	0	NI	0	R	(2)	NI	0	(0)	(1)	1	1		NI	Fp	2
			RTECS No													8001-30-7
Cotton seed oil (containing less than 12% free fatty acids)	523 2783	0	NI	0	R	(2)	NI	(0)	(0)	(1)	0	1		NI	Fp	2
			RTECS No													8001-29-4
Creosote (coal tar)	524 199	(4)	(4)	(4)	NR	4	(2)	1	0	2	2	1	CM	(T)	S	3
			RTECS No													8001-58-9
Creosote (wood)	525 200	NI	NI	NI	NR	5	NI	1	0	2	2	1	CM	(T)	SD	3
			RTECS No													8021-39-4
Cresols (all isomers)	527 201	2	2	2	R	3	0	2	2	(3)	3A	3		T	SD	3
			RTECS No													1319-77-3
Cresylic acid, dephenolized	1875 202	2	2	2	R	3	0	(2)	(2)	(3)	(3A)	(3)		(T)	S	3
			RTECS No													
Cresylic acid, sodium salt solution	1914 203	(2)	(2)	(2)	(R)	(3)	(0)	1	(1)	(3)	3	3	TCM	(T)	D	3
			RTECS No													
Crotonaldehyde	528 204	0	NI	0	NR	3	1	2	4	4	2	3		NI	D	3
			RTECS No													4170-30-3
Crude carbon tetrachloride			NI	NI		NI	NI	NI	NI	NI	NI	NI		NI	NI	NI
	3070		RTECS No													
Crude Piperazine	2331 2810	0	NI	0	R	2	NI	(1)	(2)	(3)	3	3	S	NI	D	0
			RTECS No													
1,5,9-Cyclododecatriene	534 17	5	5	5	NR	4	NI	0	0	2	2	2	SA	NI	F	3
			RTECS No													4904-61-4
Cycloheptane	535 205	4	NI	4	(NR)	4	NI	(0)	0	(1)	(0)	(1)		NI	FE	2
			RTECS No													291-64-5
Cyclohexane	536 206	3	3	3	NR	3	NI	0	0	1	0	1		NI	E	2
			RTECS No													110-82-7

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3	
Cyclohexanol	537	1	NI	1	R	2	NI	0	0	0	2	2		NI	Fp	2	
	207	RTECS No		GV7875000	CAS No:										108-93-0		
Cyclohexanone	539	0	1	1	R	1	0	1	1	1	2	2		NI	FE	2	
	208	RTECS No		GW1050000	CAS No:										108-93-0		
Cyclohexanone, Cyclohexanol mixture	1436	1	1	1	R	2	NI	1	1	1	2	2		NI	FED	2	
	209	RTECS No		CAS No:													
Cyclohexyl acetate	541	2	NI	2	(R)	(2)	NI	0	0	(2)	2	1		NI	FED	2	
	210	RTECS No		AG5075000	CAS No:										622-45-7		
Cyclohexylamine	542	1	NI	1	R	2	NI	2	2	3	3	3	S	NI	D	3	
	211	RTECS No		GX0700000	CAS No:										108-91-8		
1,3-Cyclopentadiene dimer (molten)	545	3	3	3	NR	3	NI	2	0	3	2	2		NI	Fp	2	
	11	RTECS No		PC1050000	CAS No:										77-73-6		
Cyclopentane	546	3	NI	3	NR	3	NI	(0)	(0)	0	1	(1)		NI	E	2	
	212	RTECS No		GY2390000	CAS No:										287-92-3		
Cyclopentene	547	2	NI	2	NI	3	NI	1	1	0	NI	NI		NI	E	2	
	213	RTECS No		GY5950000	CAS No:										142-29-0		
p-Cymene	549	4	4	4	(NR)	3	NI	0	(0)	1	2	(1)		NI	FE	2	
	552	RTECS No		GZ5950000	CAS No:										99-87-6		
Decahydronaphthalene	551	4	4	4	NR	3	NI	0	0	(1)	1	1		NI	F	1	
	214	RTECS No		QJ3150000	CAS No:										91-17-8		
Decane	554	5	NI	5	R	0	0	0	0	0	1	0		NI	F	1	
	2620	RTECS No		HD6550000	CAS No:										124-18-5		
Decanoic acid	555	4	NI	4	R	4	1	0	0	(2)	2	2		NI	Fp	2	
	215	RTECS No		HD9100000	CAS No:										334-48-5		
Decene	558	5	NI	5	R	4	2	0	0	0	2	0	A	NI	F	3	
	216	RTECS No		CAS No:												25339-53-1	

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Decyl acetate	1767 217	4	NI	4	NI	NI	NI	0	0	(1)	(1)	(1)		NI	F	1
			RTECS No					CAS No:								112-17-4
Decyl acrylate	559 218	5	NI	5	NI	5	NI	0	0	(2)	2	1		NI	Fp	2
			RTECS No	AS7400000				CAS No:								2156-96-9
Decyl alcohol (all isomers)	557 219	3	2	2	R	3	NI	0	0	0	2	1		NI	Fp	2
			RTECS No	NR0960000				CAS No:								25339-17-7
Decyloxytetrahydrothiophene dioxide	1859 220	3	NI	3	NR	4	NI	0	0	(1)	1	0		NI	Fp	2
			RTECS No					CAS No:								18760-44-6
Diacetone alcohol	563 226	0	NI	0	R	1	0	0	0	(2)	2	2		NI	D	2
			RTECS No	SA9100000				CAS No:								123-42-2
Dialkyl (C8-C9) diphenylamines	1852 2255	5	NI	5	NR	1	0	0	0	(0)	0	0		NI	FD	0
			RTECS No					CAS No:								
Dialkyl (C7-C13) phthalates	566 227	0	4	4	(NR)	0	2	0	0	(1)	1	1	R	NI	Fp	3
			RTECS No					CAS No:								
Dialkyl (C9 - C10) Phthalates	2359 3121	NI	NI	NI	NI	NI	NI	0	0	(1)	(0)	1		NI	NI	NI
			RTECS No					CAS No:								
Dibromomethane	574 228	1	NI	1	NR	(2)	NI	1	0	0	NI	NI		NI	SD	1
			RTECS No	PA7350000				CAS No:								74-95-3
Dibutylamine	577 231	2	NI	2	R	3	NI	2	2	3	3	3		NI	FD	3
			RTECS No	HR7780000				CAS No:								110-96-3
Dibutyl hydrogen phosphate	1857 229	1	NI	1	NI	2	NI	0	0	(3)	3	3		NI	F	3
			RTECS No					CAS No:								1809-19-4
2,6-Di-tert-butylphenol	2082 2250	4	NI	4	NR	4	NI	0	0	(1)	1	1		NI	Fp	2
			RTECS No	SK8265000				CAS No:								128-39-2
Dibutyl phthalate	582 230	4	4	4	R	4	1	0	0	1	0	1	R	NI	S	3
			RTECS No	TI0875000				CAS No:								84-74-2

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3	
Dichlorobenzene (all isomers)	333	3	4	4	NR	3	1	1	0	1	(2)	2	CMR	T	S	3	
	232	RTECS No					CAS No:					541-73-1					
3,4-Dichloro-1-butene	2079	2	2	2	NR	3	NI	1	0	2	2	3		NI	S	3	
	56	RTECS No			EM4740000			CAS No:					760-23-6				
1,1-Dichloroethane	590	1	NI	1	NR	1	NI	1	(1)	0	2	2		NI	SD	2	
	4	RTECS No			KI0175000			CAS No:					75-34-3				
Dichloroethyl ether	588	1	1	1	NR	1	0	2	3	4	1	3	M	T	SD	3	
	233	RTECS No			KN0875000			CAS No:					111-44-4				
1,6-Dichlorohexane	593	3	NI	3	NR	3	NI	0	(0)	(0)	0	0		NI	S	0	
	19	RTECS No			CAS No:					2163-00-0							
2,2'-Dichloroisopropyl ether	615	2	2	2	NR	2	NI	2	0	2	0	2		NI	SD	2	
	25	RTECS No			KN1750000			CAS No:					108-60-1				
Dichloromethane	594	1	2	2	NR	1	0	1	0	0	2	2	C	NI	SD	3	
	234	RTECS No			PA8050000			CAS No:					75-09-2				
2,4-Dichlorophenol	596	3	2	2	R	3	2	3	2	3	3	3		T	S	3	
	30	RTECS No			SK8575000			CAS No:					120-83-2				
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	599	0	1	1	R	3	NI	1	0	(3)	1	3		(T)	D	3	
	32	RTECS No			CAS No:												
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution (70% or less)	600	0	1	1	R	3	NI	1	0	(3)	1	3		(T)	D	3	
	33	RTECS No			CAS No:												
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	602	0	1	1	R	3	NI	1	0	(3)	(1)	3		(T)	D	NI	
	34	RTECS No			CAS No:					2569-10-9							
1,1-Dichloropropane	605	2	1	1	NR	2	1	0	0	1	1	1		NI	SD	1	
	5	RTECS No			TX9450000			CAS No:					78-99-9				
1,2-Dichloropropane	606	2	1	1	NR	2	1	1	0	2	2	2		NI	SD	2	
	9	RTECS No			TX9625000			CAS No:					78-87-5				

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
1,3-Dichloropropane	607 12	2	1	1	NR	2	1	0	NI	NI	NI	NI		NI	SD	NI
		RTECS No		TX9660000		CAS No:								542-75-6		
1,3-Dichloropropene	612 13	1	NI	1	NR	4	1	2	1	2	3	3	CS	NI	SD	3
		RTECS No		UC8310000		CAS No:								542-75-6		
Dichloropropene/Dichloropropane mixtures	608 235	2	1	1	NR	4	1	2	1	2	3	3	CS	NI	SD	3
		RTECS No		TX9800000		CAS No:								8003-19-8		
2,2-Dichloropropionic acid	609 28	2	2	2	NR	2	NI	1	0	(3)	3	3		NI	D	3
		RTECS No		UF0690000		CAS No:								75-99-0		
Diethanolamine	620 236	0	NI	0	R	1	0	1	0	0	2	3	T	NI	D	2
		RTECS No		KL2975000		CAS No:								111-42-2		
Diethylamine	621 240	0	NI	0	R	2	NI	1	2	3	3C	3		NI	DE	3
		RTECS No		HZ8750000		CAS No:								109-89-7		
Diethylaminoethanol	622 241	0	NI	0	NR	3	NI	1	1	2	3	3		NI	D	3
		RTECS No		KK5075000		CAS No:								100-37-8		
2,6-Diethylaniline	1437 35	3	3	3	NR	2	NI	1	1	(2)	1	2		NI	FD	2
		RTECS No		BX3500000		CAS No:								579-66-8		
Diethylbenzene	624 242	4	4	4	NR	3	NI	0	(0)	(2)	2	1		NI	F	2
		RTECS No		CZ5600000		CAS No:								25340-17-4		
Di-(2-ethylbutyl) phthalate	625 2750	5	NI	5	R	0	2	0	0	(1)	1	1	R	NI	Fp	3
		RTECS No		TI1100000		CAS No:										
Diethylene glycol	628 243	0	NI	0	R	0	0	1	0	2	1	1		NI	D	2
		RTECS No		ID5950000		CAS No:								111-46-6		
Diethylene glycol dibutyl ether	629 244	2	NI	2	NI	1	NI	0	0	(1)	1	1		NI	FD	1
		RTECS No		KN0350000		CAS No:								112-73-2		
Diethylene glycol diethyl ether	630 245	0	NI	0	NR	0	NI	1	0	(2)	NI	2		NI	D	2
		RTECS No		KN3160000		CAS No:								112-36-7		

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Diethylene glycol phthalate	1438 247	2	NI	2	NR	1	NI	0	0	(2)	(1)	2		NI	S	3
			RTECS No					CAS No:								
Diethylenetriamine	638 248	0	1	1	(R)	2	NI	1	3	3	3A	3	S	NI	FD	3
			RTECS No	IE1225000				CAS No:						111-40-0		
Diethylenetriaminepentaacetic acid, pentasodium salt solution	2076 249	0	NI	0	NR	0	NI	0	(0)	(0)	0	0		NI	D	0
			RTECS No					CAS No:						140-01-2		
Diethyl ether	640 237	0	1	1	NR	0	NI	1	0	0	1	1		NI	DE	2
			RTECS No	KI5775000				CAS No:						60-29-7		
Di-(2-ethylhexyl) adipate	641 222	0	2	2	R	4	2	0	0	0	1	1	R	NI	Fp	3
			RTECS No	AU9700000				CAS No:						103-23-1		
Di-(2-ethylhexyl) phosphoric acid	643 223	(2)	1	1	NR	2	NI	0	1	(2)	2	2		NI	Fp	2
			RTECS No	TB7875000				CAS No:						298-07-7		
Di-(2-ethylhexyl) phthalate	642 2751	0	4	4	NR	0	0	0	0	1	1	1	R	NI	Fp	3
			RTECS No	TI0350000				CAS No:						117-81-7		
Diethyl phthalate	648 238	3	3	3	R	2	0	1	0	(2)	1	1		NI	S	3
			RTECS No	TI1050000				CAS No:						84-66-2		
Diethyl sulphate	649 239	1	NI	1	(NR)	(2)	NI	1	2	3	2	3	CM	NI	SD	3
			RTECS No	WS7875000				CAS No:						64-67-5		
Diglycidyl ether of bisphenol A	653 250	3	NI	3	NR	4	NI	0	0	(2)	1	2	S	NI	S	2
			RTECS No	TX3800000				CAS No:						1675-54-3		
Diglycidyl ether of bisphenol F	728 251	0	NI	0	NR	3	NI	0	(0)	(2)	1	(2)	SR	NI	S	3
			RTECS No					CAS No:						55492-52-9		
Diheptyl phthalate	655 252	0	2	2	R	0	NI	0	0	(1)	1	1	R	NI	Fp	3
			RTECS No	TI1090000				CAS No:						3648-21-3		
Di-n-hexyl adipate	656 224	5	NI	5	(NR)	5	0	0	0	(1)	0	1		NI	FE	1
			RTECS No	AV1150000				CAS No:						110-33-8		

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Dihexyl phthalate	2125 253	5	NI	5	R	0	2	0	0	(1)	1	1	R	NI	Fp	3
			RTECS No													84-75-3
1,4-Dihydro-9,10-dihydroxyanthracene, disodium salt solution	657 15	1	NI	1	NI	1	NI	0	NI	NI	NI	NI		NI	D	NI
			RTECS No													
Diisobutylamine	576 256	2	NI	2	R	3	NI	2	(2)	2	(3)	(3)		NI	FED	3
			RTECS No													110-96-3
Diisobutylene	575 257	4	4	4	NR	3	NI	0	0	0	1	0		NI	FE	2
			RTECS No													25167-70-8
Diisobutyl ketone	579 254	3	NI	3	R	2	NI	0	0	2	2	2		NI	F	2
			RTECS No													108-83-8
Diisobutyl phthalate	581 255	4	(4)	4	R	4	1	0	0	(0)	0	0	R	NI	S	3
			RTECS No													84-69-5
Diisodecyl phthalate	619 3119	NI	NI	NI	NI	NI	Ni	0	0	(0)	0	1		NI	NI	NI
			RTECS No													
Diisononyl adipate	690 258	0	NI	0	R	0	0	0	0	(1)	1	1		NI	Fp	2
			RTECS No													33703-08-1
Diisononyl phthalate	691 3120	Ni	NI	NI	NI	NI	NI	0	0	(0)	1	1		NI	NI	NI
			RTECS No													
Diisoctyl phthalate	693 259	0	4	4	(NR)	0	0	0	0	(1)	1	0		NI	Fp	3
			RTECS No													27554-26-3
Diisopropanolamine	703 260	0	NI	0	NR	1	NI	0	0	0	2	3		NI	FD	2
			RTECS No													110-97-4
Diisopropylamine	705 261	1	NI	1	NR	2	0	1	1	2	3	3		NI	ED	3
			RTECS No													108-18-9
Diisopropylbenzene (all isomers)	2220 262	5	4	4	NR	4	NI	0	0	2	2	1		(T)	F	2
			RTECS No													25321-09-9

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
1,3-Diisopropyl benzene	706	5	4	4	NR	4	NI	0	0	2	2	1		NI	F	2
	2626	RTECS No		CZ6330000				CAS No:								
Diisopropyl naphthalene	712	5	4	4	NR	(3)	NI	0	0	(1)	1	1		NI	Fp	2
	263	RTECS No		QJ1527000				CAS No:		38640-62-9						
N,N-Dimethylacetamide	658	0	NI	0	R	1	NI	0	0	2	1	2		NI	D	2
	2730	RTECS No		AB7700000				CAS No:		127-19-5						
N,N-Dimethylacetamide solution (40% or less)	658	0	NI	0	R	1	NI	0	0	2	1	2		NI	D	2
	466	RTECS No		AB7700000				CAS No:		127-19-5						
Dimethyl adipate	659	1	NI	1	NR	4	NI	0	0	2	1	1		NI	SD	0
	264	RTECS No		AV1645000				CAS No:		627-93-0						
Dimethylamine (anhydrous)	660	NI	NI		NI	NI	NI	2	0	2	3B	3	S	NT	GD	3
	2628	RTECS No		IP8750000				CAS No:		124-40-3						
Dimethylamine solution (45% or less)	661	0	NI	0	R	3	0	2	0	2	3B	3	S	NT	DE	3
	270	RTECS No		IP8750000				CAS No:		124-40-3						
Dimethylamine solution (greater than 45% but not greater than 55%)	661	0	NI	0	R	3	0	2	0	2	3B	3	S	NT	DE	3
	271	RTECS No		IP8750000				CAS No:		124-40-3						
Dimethylamine solution (greater than 55% but not greater than 65%)	661	0	NI	0	R	3	0	2	0	2	3B	3	S	NT	DE	3
	272	RTECS No		IP8750000				CAS No:		124-40-3						
N,N-Dimethylcyclohexylamine	665	2	NI	2	NR	2	NI	1	2	3	3C	3		NI	FD	3
	467	RTECS No		GX1198000				CAS No:		98-94-2						
Dimethyl disulphide	1616	1	NI	1	NR	3	2	2	0	2	1	1		NI	NI	2
	2504	RTECS No		JO1927500				CAS No:		624-92-0						
N,N-Dimethyldodecylamine	2126	5	NI	5	R	4	NI	1	(1)	(3)	3	3		NI	F	3
	468	RTECS No		JR6600000				CAS No:		112-18-5						
Dimethylethanolamine	667	0	NI	0	R	2	NI	1	1	2	3	3		NI	D	3
	273	RTECS No		KK6125000				CAS No:		108-01-0						

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3	
Dimethylformamide	676	0	0	0	R	1	0	0	1	2	1	2	R	NI	D	3	
	274	RTECS No			LQ2100000			CAS No:							68-12-2		
Dimethyl glutarate	670	0	NI	0	R	3	NI	0	0	2	3	2	A	NI	SD	3	
	265	RTECS No						CAS No:							1119-40-0		
Dimethyl hydrogen phosphite	673	0	NI	0	NR	2	NI	1	0	0	1	1		NI	D	1	
	266	RTECS No			SZ7710000			CAS No:							868-85-9		
Dimethyl octanoic acid	675	3	NI	3	R	4	1	0	0	(2)	2	2		NI	Fp	2	
	267	RTECS No						CAS No:							29662-90-6		
Dimethyl phthalate	678	2	2	2	R	2	0	0	0	(1)	0	1	R	NI	SD	3	
	268	RTECS No			TI1575000			CAS No:							131-11-3		
Dimethylpolysiloxane	1161	NI	4	4	NI	2	NI	0	(0)	(0)	0	0		NI	F	1	
	275	RTECS No						CAS No:									
2,2-Dimethylpropane-1,3-diol (molten or solution)	679	0	0	0	NR	0	0	0	0	0	2	2		NI	FD	0	
	29	RTECS No			TY5775000			CAS No:							126-30-7		
Dimethyl succinate	681	0	NI	0	NI	2	NI	0	0	0	0	2		NI	SD	2	
	269	RTECS No			WM7675000			CAS No:							106-65-0		
Dinitrotoluene (molten)	688	2	2	2	NR	4	2	2	(2)	(2)	1	0	CMR	NI	S	3	
	276	RTECS No			XT1300000			CAS No:							25321-14-6		
Dinonyl phthalate	689	0	NI	0	R	0	O	0	0	(1)	1	1	R	0	Fp	3	
	2993	RTECS No			TI1800000			CAS No:							28553-12-0		
Diocetyl phthalate	692	0	(4)	(4)	(NR)	0	0	0	0	(1)	1	(1)	R	NI	Fp	3	
	277	RTECS No			TI1925000			CAS No:							117-84-0		
1,4-Dioxane	682	0	0	0	NR	0	0	0	0	0	0	2	C	NI	D	3	
	16	RTECS No			JG8225000			CAS No:							123-91-1		
Dipentene	686	4	NI	4	NR	2	NI	0	0	(2)	2	2	S	NI	F	3	
	278	RTECS No			OS8100000			CAS No:							138-86-3		

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Diphenyl	694	3	4	4	R	4	1	0	0	(2)	2	1		NI	S	2
	279	RTECS No			DU8050000			CAS No:			92-52-4					
Diphenylamine (molten)	2186	3	3	3	NR	3	1	0	0	(1)	1	1		NI	S	1
	285	RTECS No						CAS No:			122-39-4					
Diphenylamine, reaction product with 2,2,4-Trimethylpentene	1500	NI	1	1	NR	3	NI	0	0	(1)	1	1	S	NI	Fp	3
	286	RTECS No						CAS No:			68411-46-1					
Diphenylamines, alkylated	1770	5	NI	5	NR	(3)	NI	0	0	(1)	(1)	(1)	S	NI	F	3
	287	RTECS No						CAS No:			68921-45-9					
Diphenyl/Diphenyl ether mixtures	698	NI	NI	4	NR	4	1	0	0	(1)	1	1		(T)	S	1
	283	RTECS No			DV1500000			CAS No:			8004-13-5					
1,1-Diphenylethane, Ethylenated benzene by-products		NI	NI		NI	NI	NI	NI	NI	NI	NI	NI		NI	NI	NI
	2945	RTECS No						CAS No:								
Diphenyl ether	699	4	4	4	NR	4	NI	0	0	0	1	1		T	S	1
	281	RTECS No			KN8970000			CAS No:			101-84-8					
Diphenyl ether/Diphenyl phenyl ether mixture	702	5	NI	5	NR	4	NI	0	0	0	1	1		(T)	S	1
	282	RTECS No						CAS No:								
Diphenylmethane diisocyanate	700	5	2	2	NR	0	0	0	0	4	2	2	S	NI	S	3
	288	RTECS No			NQ9350000			CAS No:			101-68-8					
Diphenylol propane	2289	4	NI	4	NI	NI	NI	NI	NI	NI	NI	NI		NI	NI	NI
	289	RTECS No						CAS No:								
Diphenylol propane-epichlorohydrin resins	2237	3	NI	3	NR	4	NI	0	0	(2)	1	2		NI	S	2
	290	RTECS No						CAS No:			1675-54-3					
Di-n-propylamine	704	1	NI	1	NR	3	NI	2	2	2	3C	3		NI	FED	3
	225	RTECS No			JL9200000			CAS No:			142-84-7					
Dipropylene glycol	707	0	1	1	NR	0	NI	0	0	0	1	1		NI	D	1
	291	RTECS No			UB8785000			CAS No:			110-98-5					

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Di-n-propyl phthalate	713 2752	3	NI	3	(R)	3	NI	0	0	(1)	1	1	R	NI	S	3
			RTECS No		TI1940000			CAS No:								131-16-8
Distilled Resin Oil (DRO)	2299 2958	(3)	NI	(3)	(NR)	(3)	NI	0	0	(2)	2	1	MN	NI	FE	2
			RTECS No					CAS No:								68477-54-3
Dithiocarbamate ester (C7-C35)	2185 2371	NI	2	2	NR	4	NI	0	0	(1)	1	1		NI	S	1
			RTECS No					CAS No:								
Ditridecyl adipate	2351 293	0	NI	0	NR	0	NI	0	0	(2)	2	1	S	NI	Fp	2
			RTECS No					CAS No:								
Ditridecyl phthalate	714 2994	0	2	2	NR	0	(0)	0	0	(1)	1	(1)		0	Fp	3
			RTECS No		TI1950000			CAS No:								119-06-2
Diundecyl phthalate	715 294	0	NI	0	NR	0	0	0	0	(1)	1	1		NI	Fp	3
			RTECS No		TI1980000			CAS No:								3648-20-2
Dodecane (all isomers)	718 295	5	NI	5	(R)	0	NI	0	0	(1)	(1)	(0)		NI	Fp	2
			RTECS No		JR2125000			CAS No:								112-40-3
tert-Dodecanethiol	2233 2418	5	NI	5	NR	4	NI	0	0	(2)	2	1	S	NI	F	3
			RTECS No					CAS No:								25103-58-6
Dodecene (all isomers)	720 296	5	NI	5	NR	4	NI	0	0	(2)	2	1	A	NI	F	3
			RTECS No		UD1950000			CAS No:								6842-15-5
Dodecenylsuccinic acid, dipotassium salt solution	727 297	4	NI	4	NR	1	NI	(0)	(0)	NI	NI	NI		NI	D	0
			RTECS No					CAS No:								57195-28-5
Dodecyl alcohol	719 298	5	2	2	R	4	1	0	0	(1)	1	(1)		NI	Fp	2
			RTECS No		JR5775000			CAS No:								112-53-8
Dodecylamine/Tetradecylamine mixture	721 303	5	NI	5	R	4	NI	1	0	(3)	3	3		NI	F	3
			RTECS No					CAS No:								
Dodecylbenzene	126 304	0	NI	0	NR	0	3	0	0	(2)	(2)	(1)		NI	F	2
			RTECS No		CZ9540000			CAS No:								123-01-3

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Dodecyl diphenyl ether disulphonate solution	723 299	(5)	NI	5	NR	4	1	1	0	(3)	1	3		NI	D	2
			RTECS No		JR8050000			CAS No:						119345-04-9		
Dodecyl hydroxypropyl sulphide	1861 2252	5	NI	5	NI	4	NI	0	0	(0)	0	0		NI	FD	0
			RTECS No					CAS No:								
Dodecyl methacrylate	893 300	5	NI	5	NR	0	NI	0	(0)	(1)	1	1		NI	F	1
			RTECS No		OZ4300000			CAS No:						142-90-5		
Dodecyl/Octadecyl methacrylate (mixture)	2116 1717	(5)	NI	(5)	(NR)	(0)	NI	0	0	(1)	1	(1)		NI	NI	1
			RTECS No					CAS No:								
Dodecyl/Pentadecyl methacrylate mixture	724 302	(5)	NI	(5)	(NR)	(0)	NI	0	(0)	(1)	(1)	(1)		NI	Fp	2
			RTECS No					CAS No:								
Dodecyl phenol	725 301	0	4	4	NI	4	NI	0	0	(3)	3	2		NI	Fp	3
			RTECS No		SL3675000			CAS No:						27193-86-8		
Dodecyl Xylene	1763 306	0	NI	0	NI	0	NI	0	0	(1)	1	1		NI	Fp	2
			RTECS No					CAS No:								
Drilling brines (containing zinc salts)	1425 307	Inor	4	4	Inorg	4	1	(1)	(1)	(3)	(3)	(3)		NI	D	3
			RTECS No		ZH1400000			CAS No:						7646-85-7		
Drilling brines, including:calcium bromide solution, calcium chloride solution and sodium chloride solution	427 308	Inor	0	0	Inorg	1	0	(0)	(0)	(2)	(1)	(2)		NI	D	2
			RTECS No		EV9328000			CAS No:						7789-41-5		
Epichlorohydrin	731 309	0	NI	0	R	3	1	2	2	3	3a	3	CS	NI	NI	3
			RTECS No		TX4900000			CAS No:						106-89-8		
Ethanolamine	733 311	0	NI	0	R	2	0	1	1	3	3a	3		NI	D	3
			RTECS No		KJ5775000			CAS No:						141-45-5		
2-Ethoxyethyl acetate	767 41	0	NI	0	R	2	0	1	0	1	1	2	R	NI	D	3
			RTECS No		KK8225000			CAS No:						111-15-9		
Ethoxylated long chain (C16+) alkyloxyalkylamine	2103 2203	5	NI	5	NR	1	NI	0	0	(3)	3	(3)		NI	Fp	3
			RTECS No					CAS No:								

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Ethoxylated tallow amine, glycol mixture	2252 2476	2	NI	2	NR	6	NI	1	0	3	2	3	S	NI	D	3
		RTECS No					CAS No:									
Ethyl acetate	735 312	0	2	2	R	1	0	0	0	1	0	1		NI	DE	2
		RTECS No AH5425000					CAS No:							141-78-6		
Ethyl acetoacetate	736 313	0	0	0	R	1	NI	0	0	(1)	1	1		NI	D	1
		RTECS No AK5250000					CAS No:							141-97-9		
Ethyl acrylate	734 314	1	NI	1	R	3	1	1	2	2	2	2	SC	T	ED	3
		RTECS No AT0700000					CAS No:							140-88-5		
Ethyl alcohol	732 315	0	NI	0	R	0	NI	0	0	0	1	2		NI	D	2
		RTECS No KQ6300000					CAS No:							64-17-5		
Ethylamine	1016 322	0	NI	0	R	2	NI	2	2	1	3	3		NI	GD	3
		RTECS No KH2100000					CAS No:							75-04-7		
Ethylamine solutions (72% or less)	2219 323	NI	NI	0	R	2	NI	2	2	1	3	3		NI	DE	3
		RTECS No					CAS No:							75-04-7		
Ethyl amyl ketone	1784 316	2	NI	2	NI	2	NI	0	0	(2)	2	NI		NI	FD	2
		RTECS No RH1485000					CAS No:							106-68-3		
Ethylbenzene	740 324	3	2	2	R	3	1	0	0	0	2	2	C	NI	FE	3
		RTECS No DA0700000					CAS No:							100-41-4		
N-Ethylbutylamine	745 477	1	NI	1	NI	NI	NI	1	1	2	3	3		NI	FED	3
		RTECS No EO4880000					CAS No:							13360-63-9		
Ethyl tert-butyl ether	2085 320	1	NI	1	NI	2	NI	0	0	2	2	2		NI	E	2
		RTECS No KN4730200					CAS No:							637-92-3		
Ethyl butyrate	748 317	1	NI	1	NI	2	NI	0	0	(2)	2	NI		NI	FED	2
		RTECS No ET1660000					CAS No:							105-54-4		
Ethylcyclohexane	751 325	4	4	4	NR	3	NI	(0)	(0)	(1)	(0)	(1)		NI	FE	2
		RTECS No GV1140000					CAS No:							1678-91-7		

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
N-Ethylcyclohexylamine	752	2	NI	2	NI	(3)	NI	1	2	2	3	3		NI	FED	3
	478	RTECS No		GX1225000			CAS No:						5459-93-8			
S-Ethyl dipropylthiocarbamate	2081	3	2	2	NI	3	NI	1	1	2	2	(2)	N	NI	F	3
	2302	RTECS No					CAS No:						759-94-4			
Ethylene carbonate	755	0	NI	0	R	0	NI	0	0	(2)	1	2		NI	SD	2
	326	RTECS No		FF9550000			CAS No:						96-49-1			
Ethylene chlorohydrin	756	0	0	0	R	3	NI	2	3	4	2	3		NI	D	3
	327	RTECS No		KK0875000			CAS No:						107-07-3			
Ethylene cyanohydrin	757	0	0	0	NI	2	NI	1	0	(2)	1	2		NI	D	2
	328	RTECS No		MU5250000			CAS No:						109-78-4			
Ethylenediamine	758	0	1	1	R	3	1	1	2	1	3	3	S	NI	D	3
	343	RTECS No		KH8575000			CAS No:						107-15-3			
Ethylenediaminetetraacetic acid, tetrasodium salt solution	759	0	NI	0	NR	2	0	1	(1)	(2)	1	2		NI	D	2
	344	RTECS No		AH4375000			CAS No:						139-33-3			
Ethylene dibromide	760	1	2	2	NR	3	NI	2	2	2	3	3	CRT	NI	SD	3
	329	RTECS No		KH9275000			CAS No:						106-93-4			
Ethylene dichloride	591	1	1	1	NR	2	0	1	0	2	1	2	C	NI	SD	3
	330	RTECS No		KI0525000			CAS No:						107-06-2			
Ethylene glycol	761	0	NI	0	R	0	0	1	(1)	(1)	0	0	R	NI	D	3
	331	RTECS No		KW2975000			CAS No:						107-21-1			
Ethylene glycol acetate	762	0	NI	0	R	2	NI	0	0	(3)	NI	(3)	R	NI	D	3
	333	RTECS No		KW7175000			CAS No:						542-59-6			
Ethylene glycol butyl ether acetate	764	1	NI	1	R	2	NI	0	1	(1)	1	1		NI	FD	1
	334	RTECS No		KJ8925000			CAS No:						112-07-2			
Ethylene glycol diacetate	765	0	NI	0	NI	2	NI	0	0	(1)	1	NI		NI	D	1
	335	RTECS No		KW4025000			CAS No:						111-55-7			

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Ethylene glycol methyl butyl ether	772	1	NI	1	NI	1	NI	NI	NI	NI	NI	NI		NI	D	2
	336	RTECS No					CAS No:					13343-98-1				
Ethylene glycol methyl ether acetate	773	0	NI	0	R	2	NI	1	0	(2)	NI	1	R	NI	D	3
	337	RTECS No KL5950000					CAS No:					110-49-6				
Ethylene glycol monoalkyl ethers	2268	0	NI	0	R	2	NI	1	2	2	1	2		NI	D	2
	338	RTECS No					CAS No:					111-76-2				
Ethylene glycol phenyl ether	775	1	NI	1	R	1	0	1	0	(2)	1	2		NI	SD	2
	339	RTECS No KM0350000					CAS No:					122-99-6				
Ethylene glycol phenyl ether/Diethylene glycol phenyl ether mixture	1740	NI	NI	1	R	1	NI	1	0	(2)	(2)	(2)		NI	SD	2
	340	RTECS No					CAS No:									
Ethylene oxide	77	NI	NI		NI	NI	NI	1	(1)	3	3	3	CMRS	NI	GD	3
	2744	RTECS No KX2450000					CAS No:									
Ethylene oxide/Propylene oxide mixture with an ethylene oxide content of not more than 30% by mass	78	0	NI	0	R	1	NI	1	1	3	3	3	CMR	NI	DE	3
	341	RTECS No					CAS No:									
Ethylene-Vinyl acetate copolymer (emulsion)	779	0	1	1	NR	0	0	0	(0)	NI	NI	NI		NI	S	NI
	342	RTECS No					CAS No:									
Ethyl-3-ethoxypropionate	1439	1	NI	1	NR	2	NI	0	0	2	1	1		NI	FD	2
	321	RTECS No UF3325000					CAS No:					763-69-9				
2-Ethylhexanoic acid	776	2	NI	2	R	2	NI	0	0	(2)	2	2	R	NI	FD	3
	45	RTECS No MO7700000					CAS No:					149-57-5				
2-Ethylhexyl acrylate	782	3	NI	3	R	2	NI	0	0	(2)	2	2	S	NI	F	3
	46	RTECS No AT0855000					CAS No:					103-11-7				
2-Ethylhexylamine	1081	2	NI	2	NI	3	NI	1	1	3	3	3		NI	FD	3
	48	RTECS No MQ5250000					CAS No:					104-75-6				
2-Ethyl-2-(hydroxymethyl) propane-1,3-diol (C8-C10) ester	2054	0	NI	0	R	0	NI	0	(0)	(0)	0	(0)		NI	Fp	2
	42	RTECS No					CAS No:									

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Ethylidene norbornene	783	3	3	3	NR	3	0	0	0	2	1	2		NI	FE	2
	345	RTECS No		RB9450000			CAS No:		16219-75-3							
Ethyl isoamyl ketone	737	NI	NI		NI	NI	NI	0	0	(1)	1	(2)		NI	FD	2
	2618	RTECS No		MJ7350000			CAS No:									
Ethyl methacrylate	785	1	NI	1	R	2	NI	0	0	0	(2)	(2)	S	NI	FE	2
	318	RTECS No		OZ4550000			CAS No:		97-63-2							
N-Ethylmethylallylamine	2228	0	NI	0	NR	2	NI	3	2	2	3A	3		NI	D	3
	2417	RTECS No					CAS No:		18328-90-0							
o-Ethylphenol	788	2	NI	2	NI	(2)	NI	1	NI	NI	NI	NI		NI	S	1
	535	RTECS No		SL4025000			CAS No:		90-00-6							
Ethyl propionate	790	1	NI	1	NI	2	NI	0	(1)	(2)	2	2		NI	ED	2
	319	RTECS No		UF3675000			CAS No:		105-37-3							
2-Ethyl-3-propylacrolein	791	2	NI	2	R	3	NI	0	0	1	3	3		NI	FE	3
	43	RTECS No		MP6300000			CAS No:		645-62-5							
Ethyl toluene	2297	3	NI	3	NI	(3)	NI	0	0	0	2	2		NI	F	2
	346	RTECS No					CAS No:		622-96-8							
Fatty acid (saturated C13+)	1298	5	NI	0	R	0	NI	0	(0)	(1)	(1)	(1)		NI	Fp	2
	347	RTECS No		QH4375000			CAS No:		544-63-8							
Fatty acid methyl esters	2362	0	NI	0	R	2	NI	NI	NI	NI	NI	NI		NI	Fp	2
	3125	RTECS No					CAS No:									
Fatty acid methyl esters C14+	2354	0	NI	0	R	2	NI	0	(0)	(2)	2	1		NI	Fp	2
	3114	RTECS No					CAS No:									
Fatty acids, essentially linear,C6-C18, 2-ethylhexyl ester.	2253	0	NI	0	R	1	NI	0	0	(1)	1	0		NI	Fp	2
	1914	RTECS No					CAS No:									
Fatty acids, linear, C12+ saturated with C12+ unsaturated	2261	5	0	0	(R)	0	NI	(0)	(0)	(2)	(1)	(2)		NI	NI	2
	2780	RTECS No					CAS No:									

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Fatty acids, linear, C8-C18, saturated with C18 unsaturated	2260 2779	(4)	NI	(4)	R	(4)	(1)	(0)	(0)	(3)	(3)	(3)		NI	NI	3
		RTECS No						CAS No:								
Fatty acids saturated, C8-C10	2324 3079	NI	NI		NI	NI	NI	NI	NI	NI	NI	NI		NI	NI	NI
		RTECS No						CAS No:			68937-75-7					
Fatty acids, saturated, linear, C12+	2258 2777	5	0	0	R	0	NI	0	(0)	(1)	(1)	(1)		NI	Fp	2
		RTECS No						CAS No:								
Fatty acids, unsaturated, linear, C16+	2259 2778	0	0	0	R	(0)	NI	0	0	(0)	0	0		NI	Fp	2
		RTECS No						CAS No:								
Fatty alcohols, C8-C10	2325 3080	NI	NI		NI	NI	NI	NI	NI	NI	NI	NI		NI	NI	NI
		RTECS No						CAS No:								
Ferric chloride solutions	339 348	Inor	5	5	Inorg	2	0	1	(0)	(3)	2	3		NI	D	3
		RTECS No			LJ9100000			CAS No:			7705-08-0					
Ferric hydroxyethylethylenediaminetriacetic acid, trisodium salt solution	796 349	NI	NI	NI	NI	NI	NI	0	0	(1)	(0)	1		NI	D	1
		RTECS No						CAS No:								
Ferric nitrate/Nitric acid solution	337 350	Inor	5	5	Inorg	2	0	0	(0)	(3)	3	3		NI	D	3
		RTECS No						CAS No:								
Fish oil (containing less than 10% free fatty acids)	2316 3046	0	NI	0	R	2	NI	(0)	(0)	(1)	(0)	(1)		NI	Fp	2
		RTECS No						CAS No:								
Fish oil (containing less than 4% free fatty acids)	801 2774	0	NI	0	R	2	NI	(0)	(0)	(1)	(0)	(1)		NI	Fp	2
		RTECS No			LK5150000			CAS No:			8016-13-5					
Fish solubles (water-based fish meal extract)	1509 351	NI	NI	NI	NI	NI	NI	(0)	(0)	(0)	(0)	(0)		NI	NI	0
		RTECS No						CAS No:								
Fluosilicic acid	806 2716	Inor	0	0	Inorg	2	NI	2	(2)	4	3	3		NI	D	3
		RTECS No			VV8225000			CAS No:								
Fluosilicic acid (20-30%) in water solution	2240 353	Inor	NI	Inorg	Inorg	NI	NI	(1)	(1)	4	3	3		NI	D	3
		RTECS No						CAS No:			16961-83-4					

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Formaldehyde solutions (45% or less)	807	0	NI	0	R	2	NI	2	2	3	3	3	CSM	NT	D	3
	354	RTECS No		LP8925000			CAS No:									50-00-0
Formamide	808	0	NI	0	NR	1	NI	0	0	1	1	2	R	NI	D	3
	355	RTECS No		LQ0525000			CAS No:									75-12-7
Formic acid	809	0	NI	0	R	2	NI	1	(1)	2	3C	3		NI	D	3
	356	RTECS No		LQ4900000			CAS No:									64-18-6
Fumaric adduct of rosin, water dispersion	810	0	NI	0	R	3	NI	(0)	NI	NI	NI	NI		NI	NI	NI
	357	RTECS No				CAS No:										
Furfural	812	0	NI	0	R	2	NI	2	(2)	3	2	2	C	NI	D	3
	358	RTECS No		LT7000000			CAS No:									98-01-1
Furfuryl alcohol	813	0	NI	0	R	(3)	NI	2	2	3	2	2		NI	D	2
	359	RTECS No		LU9100000			CAS No:									98-00-0
Glucose solution	562	0	0	0	R	0	NI	0	0	0	0	(0)		NI	D	0
	361	RTECS No		LZ6600000			CAS No:									50-99-7
Glutaraldehyde solutions (50% or less)	1107	0	NI	0	R	3	0	1	0	4	3	3	S	NI	D	3
	362	RTECS No		MA2450000			CAS No:									111-30-8
Glycerine	814	0	NI	0	R	0	NI	0	0	(1)	0	1		NI	D	1
	363	RTECS No		MA8050000			CAS No:									56-81-5
Glycerine (83%), Dioxanedimethanol (17%) mixture	1743	NI	NI	NI	R	1	NI	0	(0)	(1)	(0)	1		NI	D	1
	364	RTECS No				CAS No:										
Glycerol ethoxylated	2360	0	NI	0	(NR)	0	NI	NI	NI	NI	NI	NI		NI	NI	NI
	3123	RTECS No				CAS No:									31694-55-0	
Glycerol monooleate	1898	0	0	0	R	0	NI	0	(0)	(1)	1	1		NI	Fp	2
	365	RTECS No		RK1300000			CAS No:									25496-72-4
Glycerol polyalkoxylate	815	NI	NI		NI	NI	NI	NI	NI	NI	NI	NI		NI	NI	NI
	366	RTECS No				CAS No:										

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Glycerol propoxylated	2346	0	NI	0	NR	1	NI	1	0	(2)	1	0		NI	D	0
	3110	RTECS No						CAS No:						25791-96-2		
Glycerol, propoxylated and ethoxylated	2276	0	NI	0	NR	3	0	(1)	0	(2)	1	1		NI	SD	0
	2872	RTECS No						CAS No:						9082-00-2		
Glyceryl triacetate	816	0	NI	0	R	1	0	1	0	0	0	1		NI	D	1
	367	RTECS No			AK3675000			CAS No:						102-76-1		
Glycidyl ester of C10 trialkylacetic acid	441	3	NI	3	NR	3	NI	0	0	(2)	2	1		NI	F	2
	368	RTECS No						CAS No:						26761-45-5		
Glycine, sodium salt solution	817	0	NI	0	NI	0	NI	0	(0)	(1)	(0)	(1)		NI	D	1
	369	RTECS No			MB7600000			CAS No:						6000-44-8		
Glycolic acid solution (70% or less)	2218	0	0	0	R	1	NI	1	(1)	2	3C	3		NI	D	3
	2539	RTECS No						CAS No:						79-14-1		
Glyoxal solution (40% or less)	84	0	NI	0	R	1	NI	0	0	2	2	3	MS	NI	D	3
	370	RTECS No			MD2700000			CAS No:						107-22-2		
Glyoxylic acid solution (50 % or less)	1535	0	NI	0	R	2	0	0	0	(3)	0	3	S	NI	D	3
	371	RTECS No			MD4550000			CAS No:						298-12-4		
Glyphosate solution (not containing surfactant)	1765	0	0	0	NR	3	0	0	0	(3)	0	3		NI	D	3
	2204	RTECS No			MC1075000			CAS No:						38641-94-0		
Groundnut oil (containing less than 4% free fatty acids)	820	0	NI	0	R	(2)	NI	(0)	(0)	(0)	(0)	0		NI	Fp	2
	2769	RTECS No			RX2830000			CAS No:						8002-03-7		
Heptane (all isomers)	827	4	NI	4	R	4	NI	0	0	0	(1)	1	A	NI	E	2
	372	RTECS No			MI7700000			CAS No:						142-82-5		
n-Heptanoic acid	831	2	NI	2	R	1	NI	0	0	(3)	3B	(3)		NI	FD	3
	479	RTECS No			MJ1575000			CAS No:						111-14-8		
1-Heptanol	828	2	NI	2	R	2	NI	1	0	2	(2)	(2)		NI	FD	(2)
	2688	RTECS No			MK0350000			CAS No:						111-70-6		

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Heptanol (all isomers) (d)	2223 373	2	NI	2	R	(2)	NI	0	0	(2)	(1)	(2)		NI	FD	2
			RTECS No					CAS No:								111-70-6
Heptene (all isomers)	2225 374	3	NI	3	NI	2	NI	(0)	(0)	(2)	(2)	(0)		NI	E	2
			RTECS No					CAS No:								
1-Heptene	832 2685	3	NI	3	NI	2	NI	(0)	(0)	(2)	(2)	(0)		NI	E	2
			RTECS No		MJ8815000			CAS No:								592-76-7
Heptyl acetate	833 375	3	NI	3	NI	(3)	NI	0	0	(2)	1	2		NI	F	2
			RTECS No		AH9901000			CAS No:								112-06-1
1-Hexadecylnaphthalene / 1,4-bis(hexadecyl)naphthalene mixture	2159 2373	0	NI	0	NR	0	NI	0	0	(1)	1	1		NI	Fp	2
			RTECS No					CAS No:								
Hexamethylenediamine adipate (50% in water)	846 379	0	NI	0	R	1	NI	0	(0)	(0)	0	0		NI	D	0
			RTECS No		AV1940000			CAS No:								3323-53-3
Hexamethylenediamine (molten)	845 378	0	NI	0	R	2	NI	1	1	(3)	3A	3	SR	NI	D	3
			RTECS No		MO1180000			CAS No:								124-09-4
Hexamethylenediamine solution	845 380	0	NI	0	R	2	NI	1	1	(3)	3A	3	SR	NI	D	3
			RTECS No		MO1180000			CAS No:								124-09-4
Hexamethylene diisocyanate	2142 18	3	0	0	NR	2	NI	1	2	4	3	3	S	NI	S	3
			RTECS No					CAS No:								822-06-0
Hexamethylene glycol	847 376	0	NI	0	R	1	NI	0	0	(1)	0	1		NI	D	1
			RTECS No		MO2100000			CAS No:								629-11-8
Hexamethyleneimine	848 381	1	NI	1	NI	2	NI	3	1	2	NI	NI		NI	FED	2
			RTECS No		CM3150000			CAS No:								111-49-9
Hexamethylenetetramine solutions	849 382	0	NI	0	R	0	NI	0	0	(1)	0	1	S	NI	D	2
			RTECS No		MN4725000			CAS No:								100-97-0
Hexane	850 2683	3	NI	3	R	4	NI	0	0	0	2	2	NA	NI	E	2
			RTECS No		MN9275000			CAS No:								110-54-3

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Hexane (all isomers)	850	3	NI	3	R	4	NI	0	0	0	2	2	NA	NI	E	2
	383	RTECS No		MN9275000				CAS No:		110-54-3						
1,6-Hexanediol, distillation overheads	2143	4	NI	4	NI	2	NI	0	0	2	1	2		NI	FED	2
	2641	RTECS No						CAS No:		68937-28-0						
Hexanoic acid	853	2	NI	2	R	2	NI	0	0	(3)	(3)	3		NI	FD	3
	384	RTECS No		MO5250000				CAS No:		142-62-1						
Hexanol	854	1	0	0	(R)	2	NI	1	0	(3)	1	3		NI	FD	3
	385	RTECS No		MQ4025000				CAS No:		111-27-3						
Hexene (all isomers)	2224	3	NI	3	R	3	NI	(0)	(0)	(1)	(1)	(1)		NI	E	2
	386	RTECS No						CAS No:		592-41-6						
1-Hexene	855	3	NI	3	R	3	NI	0	0	0	1	1		NI	E	2
	2681	RTECS No		MP6600100				CAS No:		592-41-6						
2-Hexene (mixed isomers)	856	3	NI	3	R	3	NI	(0)	(0)	(1)	(1)	(1)		NI	E	2
	2682	RTECS No						CAS No:		592-43-8						
Hexyl acetate	857	2	NI	2	NI	3	NI	0	0	(1)	1	1		NI	FE	2
	387	RTECS No		AI0875000				CAS No:		142-92-7						
Hexylene glycol	859	0	NI	0	R	0	0	0	0	(2)	2	2		NI	D	2
	388	RTECS No		SA0810000				CAS No:		107-41-5						
Hydrocarbon waxes	2278	0	NI	0	NR	0	0	0	0	2	1	1		NI	Fp	2
	2886	RTECS No						CAS No:								
Hydrochloric acid	864	Inor	0	0	Inorg	1	NI	1	1	3	3C	3		NI	DE	3
	389	RTECS No		MW4025000				CAS No:		7647-01-0						
Hydrogenated starch hydrolysate	2347	0	NI	0	R	0	NI	0	0	(0)	0	0		NI	D	0
	3077	RTECS No						CAS No:		68425-17-2						
Hydrogen peroxide, more than 60%	867	Inor	0	0	Inorg	3	NI	1	0	2	3	3		NI	D	3
	2689	RTECS No		MX0900000				CAS No:		7722-84-1						

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Hydrogen peroxide solutions (over 60% but not over 70% by mass)	867	Inor	0	0	Inorg	3	NI	1	0	2	3	3		NI	D	3
	390	RTECS No		MX0900000			CAS No:		7722-84-1							
Hydrogen peroxide solutions (over 8% but not over 60% by mass)	2231	Inor	0	0	Inorg	3	NI	1	0	(2)	3	3		NI	D	3
	391	RTECS No					CAS No:		7722-84-1							
2-Hydroxyethyl acrylate	869	0	NI	0	R	4	NI	1	3	3	3	3	SM	NI	D	3
	51	RTECS No		AT1750000			CAS No:		818-61-1							
N-(Hydroxyethyl)ethylenediaminetriacetic acid, trisodium salt solution	870	0	NI	0	NI	1	NI	0	0	(1)	1	1	R	NI	D	3
	470	RTECS No		MB9185000			CAS No:		139-89-9							
2-Hydroxy-4-(methylthio)butanoic acid	871	1	NI	1	R	1	NI	0	0	(3)	1	3		NI	D	3
	49	RTECS No		ET4761500			CAS No:		583-91-5							
2-Hydroxy-4-(methylthio) butanoic acid, methionone hydroxy analogue		NI	NI		NI	NI	NI	NI	NI	NI	NI	NI		NI	NI	NI
	3016	RTECS No					CAS No:									
Icosa(oxypropane-2,3-diyl)s	2092	NI	NI	NI	NI	NI	NI	0	(0)	(2)	2	(2)		NI	Fp	2
	392	RTECS No					CAS No:									
Illipe oil (containing less than 10% free fatty acids)	2304	(0)	NI	(0)	(R)	(0)	NI	(0)	(0)	(0)	(0)	(0)		NI	Fp	2
	3034	RTECS No					CAS No:									
Interesterified Mixed Vegetable Oil	2355	NI	NI		NI	NI	NI	NI	NI	NI	NI	NI		NI	Fp	2
	3115	RTECS No					CAS No:									
Isoamyl alcohol	965	1	1	1	(R)	1	0	1	0	(2)	2	2		NI	FED	2
	396	RTECS No		EL5425000			CAS No:		123-51-3							
Isobutyl alcohol	382	0	NI	0	R	1	0	0	0	1	2	3		NI	D	3
	397	RTECS No		NP9625000			CAS No:		78-83-1							
Isobutyl formate	405	1	NI	1	NI	1	NI	0	(0)	0	(1)	(2)		NI	E	2
	398	RTECS No		LQ8650000			CAS No:		542-55-2							
Isobutyl methacrylate	408	2	NI	2	NR	1	NI	0	0	0	2	2	S	NI	NI	2
	2673	RTECS No		OZ4900000			CAS No:									

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Isononylaldehyde	2300 2754	3	NI	3	NR	(3)	NI	0	0	(2)	2	1		NI	F	2
			RTECS No					CAS No:								5435-64-3
Isophorone	879 399	1	1	1	R	2	0	1	1	(2)	1	2		NI	FD	2
			RTECS No		GW7700000			CAS No:								78-59-1
Isophoronediamine	880 401	0	0	0	NR	2	0	1	(1)	(3)	3	3	S	NI	D	3
			RTECS No		GV6129000			CAS No:								2855-13-2
Isophorone diisocyanate	881 400	1	NI	1	NR	4	NI	0	0	4	3	3	SA	NI	S	3
			RTECS No		NQ9370000			CAS No:								4098-71-9
Isoprene	882 402	2	2	2	NR	2	NI	0	0	0	1	2	CM	NI	E	3
			RTECS No		NT4037000			CAS No:								78-79-5
Isopropanolamine	1182 403	0	NI	0	R	2	NI	0	1	0	3	3		NI	D	3
			RTECS No		UA5775000			CAS No:								78-96-6
Isopropyl acetate	1192 404	1	NI	1	R	1	NI	0	0	0	1	2		NI	ED	2
			RTECS No		AI4930000			CAS No:								108-21-4
Isopropyl alcohol	1181 405	0	NI	0	R	0	0	0	0	0	1	2		NI	D	2
			RTECS No		NT8050000			CAS No:								67-63-0
Isopropylamine	1195 407	0	NI	0	R	2	NI	2	2	1	3	3		0	DE	3
			RTECS No		NT8400000			CAS No:								75-31-0
Isopropylamine (70% or less) solution	2350 395	0	NI	0	R	2	NI	2	2	1	3	3		NI	DE	2
			RTECS No					CAS No:								75-31-0
isopropylbenzene	1197 2687	3	2	2	R	3	NI	0	0	0	2	1		NI	FE	2
			RTECS No		GR8575000			CAS No:								98-82-8
Isopropylcyclohexane	1199 408	4	NI	4	(NR)	(3)	NI	(0)	(0)	(1)	(0)	(1)		NI	D	2
			RTECS No					CAS No:								696-29-7
Isopropyl ether	711 406	1	NI	1	NR	2	NI	0	0	0	1	1		NI	E	2
			RTECS No		TZ5425000			CAS No:								108-20-3

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
[Jeffamine D-230]	2352	1	NI	1	NR	1	NI	0	0	(3)	3	3		NI	NI	NI
	3112	RTECS No					CAS No:									
[Jeffamine HK-511]	2353	0	NI	0	NR	2	NI	NI	NI	NI	NI	NI		NI	NI	NI
	3113	RTECS No					CAS No:					194673-87-5				
Kaolin slurry	883	Inor	NI	0	Inorg	0	NI	0	0	0	0	0		NI	S	0
	409	RTECS No			GF1670500		CAS No:					1332-58-7				
Lactic acid	886	0	NI	0	R	1	NI	0	0	(3)	2	3		NI	D	3
	410	RTECS No			OD2800000		CAS No:					50-21-5				
Lactonitrile solution (80% or less)	887	0	NI	0	R	4	NI	2	4	(4)	NI	NI		NI	D	3
	411	RTECS No			OD8225000		CAS No:					78-97-7				
Lard (containing less than 1% free fatty acids)	888	0	NI	0	R	0	NI	0	(0)	(1)	0	1		NI	Fp	2
	412	RTECS No			CAS No:					61789-99-9						
Lard (containing less than 10% free fatty acids)	2317	0	NI	0	R	0	NI	0	(0)	(1)	0	1		NI	Fp	2
	3047	RTECS No					CAS No:									
Latex, ammonia (1% or less), inhibited	889	0	NI	0	R	(2)	NI	(0)	(0)	(0)	(0)	(1)		NI	D	NI
	413	RTECS No					CAS No:									
Latex: Carboxylated styrene-Butadiene copolymer; Styrene-Butadiene rubber	1274	0	NI	0	NR	0	NI	0	0	(0)	0	1		NI	D	0
	414	RTECS No					CAS No:									
Lauric acid	891	4	NI	4	R	4	1	0	(0)	(2)	1	2		NI	Fp	2
	415	RTECS No			OE9800000		CAS No:					143-07-7				
Lecithin	2146	0	NI	0	R	0	NI	0	0	(0)	0	(0)		NI	SD	0
	417	RTECS No					CAS No:					8030-76-0				
Ligninsulphonic acid, sodium salt solution	34	0	NI	0	(NR)	(0)	NI	0	(0)	(0)	(0)	(0)		NI	D	NI
	419	RTECS No					CAS No:					8061-51-6				
Linear alkyl (C12-C16) propoxyamine ethoxylate		NI	NI		NI	NI	NI	NI	NI	NI	NI	NI		NI	NI	NI
	3015	RTECS No					CAS No:									

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Linseed oil (containing less than 2% free fatty acids)	905 2767	0	NI	0	R	(2)	NI	0	(0)	(1)	0	(1)		NI	Fp	2
			RTECS No		OI9690000			CAS No:								8001-26-1
Linseed oil (containing less than 4% free fatty acids)	2318 3048	0	NI	0	R	(2)	NI	0	(0)	(1)	0	(1)		NI	Fp	2
			RTECS No					CAS No:								
Liquid chemical wastes	420	NI	NI		NI	NI	NI	NI	NI	NI	NI	NI		NI	NI	NI
			RTECS No					CAS No:								
Long-chain alkaryl polyether (C11-C20)	421	NI	NI		NI	NI	NI	NI	NI	NI	NI	NI		NI	NI	NI
			RTECS No					CAS No:								26401-47-8
Long-chain alkaryl sulphonic acid (C16-C60)	1966 424	0	NI	0	(NR)	0	NI	0	0	(2)	(1)	2		NI	Fp	2
			RTECS No					CAS No:								
Long-chain alkylphenate/Phenol sulphide mixture	1754 425	(0)	NI	(0)	(NR)	0	NI	0	0	(2)	2	2	S	NI	Fp	3
			RTECS No					CAS No:								
Long-chain polyetheramine in alkyl (C2-C4) benzenes	1457 422	NI	NI	NI	NR	2	NI	0	0	(2)	2	2		NI	Fp	2
			RTECS No					CAS No:								
Long-chain polyetheramine in aromatic solvent	1457 423	NI	NI	NI	NR	2	NI	0	0	(2)	2	2		NI	Fp	2
			RTECS No					CAS No:								
L-Lysine solution (60% or less)	2199 2306	0	0	0	R	1	0	0	0	0	1	NI		NI	D	1
			RTECS No					CAS No:								56-87-1
Magnesium chloride solution	915 427	Inor	0	0	Inorg	1	0	0	0	(0)	0	0		NI	D	0
			RTECS No		OM2800000			CAS No:								7786-30-3
Magnesium hydroxide slurry	916 428	Inor	0	0	Inorg	0	NI	0	0	(1)	(0)	1		NI	S	1
			RTECS No		OM3570000			CAS No:								1309-42-8
Magnesium lignosulphonate solutions	2356 3116	(0)	NI	(0)	(NR)	(0)	NI	(0)	(0)	(0)	(0)	(0)		NI	D	NI
			RTECS No					CAS No:								
Magnesium long-chain alkaryl sulphonate (C11-C50)	1967 430	0	NI	0	NR	0	NI	0	0	(2)	1	2	S	NI	Fp	3
			RTECS No					CAS No:								71786-47-5

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Magnesium long-chain alkyl salicylate (C11+)	71 429	(0)	NI	(0)	NR	(2)	NI	0	0	(1)	(1)	(1)	S	NI	S	2
		RTECS No					CAS No:									
Maize (corn) acid oil	2338 3092	NI	NI		NI	NI	NI	NI	NI	NI	NI	NI		NI	NI	NI
		RTECS No					CAS No:									
Maleic anhydride	921 431	1	NI	1	R	2	0	1	2	(3)	3	3	S	NI	D	3
		RTECS No ON3675000					CAS No:					108-31-6				
Maltitol Syrup	2348 3078	0	NI	0	R	0	NI	0	0	(0)	0	0		NI	D	0
		RTECS No					CAS No:					585-88-6				
Mango kernal oil (containing less than 10% free fatty acids)	2305 3035	(0)	NI	(0)	(R)	(0)	NI	(0)	(0)	(0)	(0)	(0)		NI	Fp	2
		RTECS No					CAS No:					167747-36-6				
Mercaptobenzothiazol, sodium salt solution	925 432	2	1	1	NR	4	2	0	0	(0)	0	0	S	NI	S	2
		RTECS No DL6475000					CAS No:					149-30-4				
Mesityl oxide	946 433	1	NI	1	R	(1)	NI	1	0	2	2	2		NI	D	2
		RTECS No SB4200000					CAS No:					141-79-7				
Metam sodium solution	202 434	0	NI	0	NR	5	NI	1	2	(2)	2	1	S	NI	D	2
		RTECS No FC2100000					CAS No:					137-42-8				
Methacrylic acid - alkoxy poly (alkylene oxide) methacrylate copolymer, sodium salt aqueous solution (45% or less)	2288 2819	NI	0	0	NR	1	NI	0	(0)	(1)	1	0		NI	D	1
		RTECS No					CAS No:									
Methacrylic acid	948 435	0	NI	0	R	2	0	1	2	2	3	3		NI	D	3
		RTECS No OZ2975000					CAS No:					79-41-4				
Methacrylic resin in Ethylene dichloride	2046 436	1	1	1	NR	2	0	(1)	(0)	(2)	(1)	(2)	C	NI	SD	3
		RTECS No					CAS No:									
Methacrylonitrile	949 437	0	NI	0	R	2	0	3	2	4	1	1	S	NT	ED	3
		RTECS No UD1400000					CAS No:					126-98-7				
3-Methoxy-1-butanol	952 57	0	NI	0	R	(1)	NI	0	0	(1)	0	1		NI	D	1
		RTECS No					CAS No:					2517-43-3				

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3	
3-Methoxybutyl acetate	953 58	1	1	1	R	3	NI	0	(0)	(1)	1	1		NI	FED	1	
		RTECS No			EL4725000			CAS No:							4435-53-4		
N-(2-Methoxy-1-methyl ethyl)-2-ethyl-6-methyl chloroacetanilide	113 469	2	2	2	NR	5	1	1	0	(2)	1	0	S	NI	S	2	
		RTECS No			AN3430000			CAS No:							51218-45-2		
Methyl acetate	954 438	0	NI	0	R	1	NI	0	0	0	1	2		NI	DE	2	
		RTECS No			AI9100000			CAS No:							79-20-9		
Methyl acetoacetate	335 439	0	NI	0	R	1	NI	0	0	(2)	1	2		NI	D	2	
		RTECS No			AK5775000			CAS No:							105-45-3		
Methyl acrylate	955 440	0	NI	0	R	3	NI	2	1	2	3	3	MS	NI	D	3	
		RTECS No			AT2800000			CAS No:							96-33-3		
Methyl alcohol	951 441	0	NI	0	R	0	0	3	(3)	(4)	2	2	T	NI	DE	3	
		RTECS No			PC1400000			CAS No:							67-56-1		
Methylal, technical		NI	NI		NI	NI	NI	NI	NI	NI	NI	NI		NI	NI	NI	
	2724	RTECS No						CAS No:									
Methylamine solutions (42% or less)	957 455	0	NI	0	R	2	NI	2	(2)	3	3	3	M	NT	DE	3	
		RTECS No			PF6300000			CAS No:							74-89-5		
Methylamyl acetate	858 456	2	NI	2	NI	3	NI	0	0	0	1	(2)		NI	FED	2	
		RTECS No			SA7525000			CAS No:							108-84-9		
Methylamyl alcohol	958 457	1	NI	1	R	1	NI	1	0	2	1	3		NI	FED	3	
		RTECS No			SA7350000			CAS No:							108-11-2		
Methyl amyl ketone	959 442	1	NI	1	NI	1	NI	1	0	0	1	1		NI	FED	2	
		RTECS No			MJ5075000			CAS No:							110-12-3		
N-Methylaniline	961 3107	1	NI	1	(NR)	3	1	1	1	(2)	(1)	1		NI	FD	1	
		RTECS No			BY4550000			CAS No:							100-61-8		
Methylbutenol	967 458	0	NI	0	R	2	NI	1	0	(2)	2	2		NI	D	2	
		RTECS No			EM9472500			CAS No:							556-82-1		

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Methyl tert-butyl ether	969	1	NI	1	NR	1	0	0	0	0	2	1		T	ED	2
	454	RTECS No		KN5250000			CAS No:			1634-04-4						
Methyl butyl ketone	970	1	NI	1	R	1	0	0	0	0	1	1	RN	NI	FED	3
	443	RTECS No		MP1400000			CAS No:			591-78-6						
Methylbutynol	968	0	NI	0	NR	1	NI	1	1	3	0	2		NI	D	2
	459	RTECS No		ES0810000			CAS No:			115-19-5						
Methyl butyrate	973	1	NI	1	NI	(2)	NI	0	0	2	2	(2)		NI	ED	2
	444	RTECS No		ET5500000			CAS No:			623-42-7						
Methylcyclohexane	976	3	3	3	NR	3	1	0	0	1	1	1	A	NI	E	2
	460	RTECS No		GV6125000			CAS No:			108-87-2						
Methylcyclopentadiene dimer	977	4	NI	4	(NR)	(3)	NI	0	(0)	(2)	(2)	(2)		NI	F	2
	461	RTECS No		PC1075000			CAS No:			26472-00-4						
Methylcyclopentadienyl manganese tricarbonyl	2213	3	NI	3	NR	4	NI	2	3	4	1	1		NI	S	3
	2692	RTECS No					CAS No:			12108-13-3						
Methyl cyclopentadienyl manganese tricarbonyl (60-70%) in mineral oil		NI	NI		NI	NI	NI	NI	NI	NI	NI	NI		NI	NI	NI
	3055	RTECS No					CAS No:									
Methyl diethanolamine	1491	0	NI	0	R	2	NI	1	0	(2)	1	2		NI	D	2
	445	RTECS No		KL7525000			CAS No:			105-59-9						
Methylene bithiocyanate	2235	2	NI	2	NR	5	NI	2	0	4	NI	NI	S	NI	NI	3
	2693	RTECS No					CAS No:			6317-18-6						
Methylene bridged isobutenylated phenols	2290	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI		NI	NI	NI
	82	RTECS No					CAS No:									
2-Methyl-6-ethyl aniline	984	2	NI	2	NR	2	NI	1	1	(2)	0	2		NI	FD	2
	54	RTECS No		BY5600000			CAS No:			24549-06-2						
Methyl ethyl ketone	385	0	NI	0	R	1	0	0	0	1	2	2		NI	DE	2
	446	RTECS No		EL6475000			CAS No:			78-93-3						

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
2-Methyl-5-ethyl pyridine	986	2	NI	2	NI	2	NI	1	2	(3)	3	3		NI	FD	3
	53	RTECS No		TJ6825000			CAS No:			104-90-5						
Methyl formate	987	0	NI	0	R	1	NI	1	0	2	0	2		NI	DE	2
	447	RTECS No		LQ8925000			CAS No:			107-31-3						
N-Methylglucamine solution (70% or less)	2048	0	NI	0	R	0	NI	1	0	(3)	0	3		NI	D	3
	482	RTECS No		000000000			CAS No:			6284-40-8						
2-Methyl Glutaronitrile		NI	NI		NI	NI	NI	NI	NI	NI	NI	NI		NI	NI	NI
	2908	RTECS No					CAS No:									
2-Methylglutaronitrile (Crude)		NI	NI		NI	NI	NI	NI	NI	NI	NI	NI		NI	NI	NI
	2929	RTECS No					CAS No:									
Methyl heptyl ketone	988	3	NI	3	R	3	NI	0	0	NI	NI	NI		NI	FED	NI
	448	RTECS No		RA8225000			CAS No:			821-55-6						
2-Methyl-2-hydroxy-3-butyne	968	0	NI	0	NR	1	NI	1	1	3	0	2		NI	D	2
	52	RTECS No		ES0810000			CAS No:			115-19-5						
Methyl isobutyl ketone	971	1	NI	1	R	1	0	1	0	2	2	3		NI	FED	3
	449	RTECS No		SA9275000			CAS No:			108-10-1						
Methyl methacrylate	995	1	NI	1	R	2	NI	0	0	0	2	2	S	NI	ED	2
	450	RTECS No		OZ5075000			CAS No:			80-62-6						
3-Methyl-3-methoxybutanol	996	1	NI	1	NR	0	NI	0	(0)	(2)	1	(2)		NI	FD	2
	59	RTECS No					CAS No:			56539-66-3						
3-Methyl-3-methoxybutyl acetate	997	1	NI	1	NR	0	NI	0	(0)	NI	NI	NI		NI	F	1
	60	RTECS No					CAS No:									
Methyl naphthalene (molten)	1999	4	NI	4	(NR)	(4)	NI	1	0	(2)	1	1		T	F	2
	451	RTECS No					CAS No:									
2-Methylpentane	1000	3	NI	3	NI	4	NI	(0)	(0)	(2)	(2)	(2)		NI	E	2
	2684	RTECS No		SA2995000			CAS No:			107-83-5						

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
2-Methyl-1,3-propanediol	2200	0	0	0	NR	0	0	0	0	(0)	0	0		NI	D	0
	2213	RTECS No					CAS No:					2163-42-0				
Methyl propyl ketone	1003	0	NI	0	R	0	NI	1	0	(2)	1	2		NI	FED	2
	452	RTECS No SA7875000					CAS No:					107-87-9				
2-Methylpyridine	1005	1	NI	1	R	1	NI	1	2	1	3A	3		NI	D	3
	55	RTECS No TJ4900000					CAS No:					109-06-8				
3-Methylpyridine	1006	1	NI	1	R	1	NI	1	2	2	3	3		NI	D	3
	61	RTECS No TJ5000000					CAS No:					108-99-6				
4-Methylpyridine	1007	1	NI	1	R	1	NI	1	2	2	3	3		NI	D	3
	63	RTECS No UT5425000					CAS No:					108-89-4				
N-Methyl-2-pyrrolidone	1008	0	NI	0	R	1	NI	0	0	2	1	2	R	NI	D	3
	481	RTECS No UY5790000					CAS No:					872-50-4				
Methyl salicylate	86	2	NI	2	R	2	NI	1	1	1	2	1	R	NI	SD	3
	453	RTECS No VO4725000					CAS No:					119-36-8				
alpha-Methylstyrene	1010	3	3	3	NR	3	NI	0	0	1	2	1	M	(T)	FE	3
	107	RTECS No WL5075300					CAS No:					25013-15-4				
3-(methylthio)propionaldehyde	993	0	NI	0	R	3	1	1	1	2	2	3	NS	T	D	3
	2368	RTECS No UE2285000					CAS No:					3268-49-3				
Microsilica slurry	1514	Inor	0	0	Inorg	0	0	(0)	(0)	NI	(0)	(0)		NI	S	0
	2507	RTECS No					CAS No:					69012-64-2				
Mixed acid oil	2306	(0)	NI	(0)	(R)	(0)	NI	0	(0)	(1)	(1)	1		NI	Fp	2
	3036	RTECS No					CAS No:									
Molasses	1013	0	NI	0	R	0	NI	0	0	0	0	0		NI	D	0
	462	RTECS No					CAS No:									
[Molytrimer IDN1111]	2344	4	2	2	NR	2	0	0	0	(2)	2	2		NI	Fp	2
	3108	RTECS No					CAS No:									

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Morpholine	1018 463	0	0	0	R	2	NI	1	2	2	3	3		NI	D	3
		RTECS No		QD6475000				CAS No:		110-91-8						
Motor fuel anti-knock compounds (containing lead alkyls)	1303 464	4	5	5	NR	5	NI	3	2	4	2	2	NR	NI	S	3
		RTECS No		TP4550000				CAS No:		78-00-2						
Myrcene	1019 465	4	NI	4	R	4	1	0	0	(2)	2	NI		NI	F	2
		RTECS No		RG5365000				CAS No:		123-35-3						
[Nalco 5740S Antifoam]	2291 492	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI		NI	NI	NI
		RTECS No						CAS No:								
Naphthalene (molten)	1 493	3	3	3	NR	4	1	1	0	(2)	1	1	C	T	S	3
		RTECS No		QJ0525000				CAS No:		91-20-3						
Naphthalenesulphonic acid-Formaldehyde copolymer, sodium salt solution	1020 494	0	1	1	(NR)	1	NI	0	(0)	(1)	0	1		NI	D	1
		RTECS No		EC4850000				CAS No:		9084-06-4						
Naphthenic acids	1021 495	NI	NI	NI	NI	3	NI	1	NI	NI	NI	NI		(T)	FD	1
		RTECS No		QK8750000				CAS No:		1338-24-5						
Neodecanoic acid	1025 496	4	NI	4	NR	2	NI	0	0	(2)	0	2		NI	Fp	2
		RTECS No						CAS No:		26896-20-8						
Nitrating acid (mixture of sulphuric and nitric acids)	289 497	Inor	NI	0	Inorg	(2)	NI	3	3	4	3C	3		NI	D	3
		RTECS No						CAS No:								
Nitric acid (70% and over)	1029 498	Inor	NI	0	Inorg	2	NI	(3)	(1)	4	3C	3		NI	D	3
		RTECS No		QU5775000				CAS No:		7697-37-2						
Nitric acid (less than 70%)	1029 499	Inor	NI	0	Inorg	2	NI	(3)	(1)	4	3C	3		NI	D	3
		RTECS No		QU5775000				CAS No:		7697-37-2						
Nitrilotriacetic acid, trisodium salt solution	1030 500	0	NI	0	R	1	0	1	(0)	0	1	1	CMR	NI	D	3
		RTECS No		MB8400000				CAS No:		5064-31-3						
Nitrobenzene	1017 501	1	1	1	R	3	(4)	(2)	2	2	1	1	CRT	NI	SD	3
		RTECS No		DA6475000				CAS No:		98-95-3						

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Nitroethane	1037 502	0	NI	0	NR	2	NI	1	0	(2)	(0)	(1)		NI	SD	2
			RTECS No		KI5600000			CAS No:								79-24-3
Nitroethane(80%)/ Nitropropane(20%)	2245 503	0	1	1	NR	2	NI	1	1	2	0	1		NI	E	2
			RTECS No					CAS No:								
Nitroethane, 1-Nitropropane (each 15% or more) mixture	2270 2212	(0)	(1)	(1)	(NR)	(2)	NI	1	1	2	0	1		NI	FED	2
			RTECS No					CAS No:								
o-Nitrophenol (molten)	1041 536	1	2	2	R	3	(2)	0	0	(1)	1	1		NI	S	1
			RTECS No		SM2100000			CAS No:								88-75-5
1-Nitropropane	1044 2747	(0)	(1)	(1)	(NR)	(2)	NI	1	0	2	0	1		NI	FED	3
			RTECS No		TZ5075000			CAS No:								108-03-2
1- or 2-Nitropropane	2242 20	0	1	1	NR	1	NI	2	0	2	0	1	C	NI	FED	3
			RTECS No					CAS No:								108-03-2
2-Nitropropane	1045 2748	(0)	(1)	(1)	(NR)	(2)	NI	2	0	2	0	0	C	NI	FED	3
			RTECS No		TZ5250000			CAS No:								
Nitropropane (60%)/Nitroethane (40%) mixture	1046 504	0	1	1	NR	2	NI	1	0	2	0	1	C	NI	FED	3
			RTECS No					CAS No:								
o-Nitrotoluene	1049 2745	NI	NI		NI	NI	NI	1	0	(2)	0	1	CMR	NI	S	3
			RTECS No		XT3150000			CAS No:								
p-Nitrotoluene	1051 2746	NI	NI		NI	NI	NI	1	0	(2)	0	1	R	NI	S	3
			RTECS No		XT3325000			CAS No:								
o- or p-Nitrotoluenes	2241 532	2	2	2	NR	3	1	1	0	(2)	0	1	CMR	NI	S	3
			RTECS No					CAS No:								88-72-2
Nonane (all isomers)	1054 506	4	NI	4	R	4	NI	0	0	1	0	0	A	NI	FE	3
			RTECS No		RA6115000			CAS No:								111-84-2
Nonanoic acid (all isomers)	1055 507	3	NI	3	R	2	NI	0	0	(3)	2	3		NI	F	3
			RTECS No		RA6650000			CAS No:								112-05-0

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Nonene (all isomers)	2222 508	4	NI	4	NI	3	NI	0	0	0	1	1	A	NI	FE	3
			RTECS No					CAS No:								27215-95-8
1-Nonene	1060 2680	4	NI	4	NI	3	NI	0	0	0	1	1	A	NI	FE	3
			RTECS No					CAS No:								124-11-8
Nonyl acetate	1766 509	4	NI	4	NI	NI	NI	0	0	NI	NI	NI		NI	F	1
			RTECS No					CAS No:								143-13-5
Nonyl alcohol (all isomers)	1059 510	3	NI	3	NR	3	1	0	0	(2)	2	2		NI	Fp	2
			RTECS No		RH1400000			CAS No:								2430-22-0
Nonyl methacrylate monomer	1061 511	5	NI	5	R	3	NI	(0)	(0)	(1)	(1)	(1)		NI	F	1
			RTECS No					CAS No:								2696-43-7
Nonylphenol	1062 512	5	4	4	NR	5	3	1	0	(3)	3	3		NI	FD	3
			RTECS No		SM5600000			CAS No:								25154-52-3
Nonylphenol poly(4+)ethoxylate	1063 513	4	NI	4	NR	3	1	0	0	(2)	2	1		NI	D	2
			RTECS No					CAS No:								
Octane (all isomers)	1072 538	5	NI	5	(R)	4	NI	(0)	(0)	0	0	0	A	NI	FE	3
			RTECS No		RG8400000			CAS No:								111-65-9
Octanoic acid (all isomers)	1074 539	3	NI	3	R	1	NI	0	0	(3)	3	3		NI	F	3
			RTECS No		RH0175000			CAS No:								124-07-2
Octanol (all isomers)	1075 540	3	NI	3	R	2	0	1	0	(2)	2	2		NI	Fp	2
			RTECS No		RH6550000			CAS No:								111-87-5
1-Octanol	1075 2676	3	NI	3	R	2	0	1	0	(2)	2	2		NI	Fp	2
			RTECS No		RH6550000			CAS No:								111-87-5
iso-Octanol	1076 2675	3	NI	3	R	2	0	1	0	(2)	2	(2)		NI	F	2
			RTECS No		NS7700000			CAS No:								26952-21-6
Octene (all isomers)	1079 541	4	NI	4	NR	3	NI	0	0	0	2	1	A	NI	FE	3
			RTECS No					CAS No:								

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
n-Octyl acetate	1080 483	3	NI	3	R	2	NI	0	0	(1)	1	NI		NI	FD	1
			RTECS No		AJ1400000			CAS No:								112-14-1
Octyl aldehydes	1071 542	2	NI	2	NI	3	NI	0	0	(1)	1	1		NI	NI	1
			RTECS No					CAS No:								63885-09-6
Octyl decyl adipate	1082 543	0	NI	0	R	(0)	(0)	(0)	(0)	(1)	(1)	(1)		NI	Fp	2
			RTECS No					CAS No:								110-29-2
Olefin-Alkyl ester copolymer (molecular weight 2000+)	1965 546	NI	NI	0	NR	0	NI	0	0	(0)	0	0		NI	Fp	2
			RTECS No					CAS No:								
Olefin mixtures (C5-C7)	2243 545	3	NI	3	R	3	NI	(0)	(0)	(2)	(2)	(1)	A	NI	E	2
			RTECS No					CAS No:								
Olefin mixtures (C5-C15)	2321 544	(5)	NI	(5)	R	(4)	NI	(0)	(0)	(2)	(2)	(1)	A	NI	FE	3
			RTECS No					CAS No:								6842-15-5
Olefins (C13+, all isomers)	2028 547	5	NI	5	NR	0	NI	0	0	(0)	0	0		NI	Fp	2
			RTECS No					CAS No:								
alpha-Olefins (C6-C18) mixtures	2030 108	(5)	NI	(5)	R	(4)	NI	(0)	(0)	(2)	(2)	(1)	A	NI	FE	3
			RTECS No					CAS No:								821-95-4
Oleic acid	1089 548	0	NI	0	R	0	NI	0	1	(2)	1	1		NI	Fp	2
			RTECS No		RG2275000			CAS No:								112-80-1
Oleum	1280 549	Inor	NI	Inorg	Inorg	2	NI	(3)	(3)	4	3C	3	C	NI	D	3
			RTECS No		WS5600000			CAS No:								7664-93-9
Oleylamine	1862 550	0	NI	0	NR	4	NI	1	(1)	(3)	3B	3		NI	Fp	3
			RTECS No					CAS No:								112-90-3
Olive oil (containing less than 3.3% free fatty acids)	1090 2771	0	NI	0	R	(2)	NI	(0)	(0)	(1)	0	1		NI	Fp	2
			RTECS No		RK4300000			CAS No:								8001-25-0
Oxygenated aliphatic hydrocarbon mixture	2266 2825	5	2	(2)	NR	1	NI	0	0	(1)	1	1		NI	FE	2
			RTECS No					CAS No:								

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Palm acid oil	2307 3037	(0)	NI	(0)	(R)	(0)	NI	0	(0)	(1)	0	1		NI	Fp	2
		RTECS No						CAS No:			68440-15-3					
Palm fatty acid distillate	2310 3040	NI	NI	(0)	(R)	(0)	NI	0	(0)	(1)	0	1		NI	Fp	2
		RTECS No						CAS No:								
Palm fatty acids, C16+	2328 3083	NI	NI		NI	NI	NI	NI	NI	NI	NI	NI		NI	NI	NI
		RTECS No						CAS No:			68440-15-3					
Palm kernel acid oil	1095 553	(4)	NI	(4)	(R)	(4)	(1)	0	(0)	(2)	(2)	(2)		NI	Fp	2
		RTECS No						CAS No:			8023-79-8					
Palm kernel fatty acid distillate	2335 3089	(4)	(0)	(0)	(R)	(0)	(0)	NI	NI	NI	NI	NI		NI	NI	NI
		RTECS No						CAS No:								
Palm kernel oil (containing less than 5% free fatty acids)	1094 2766	0	NI	0	R	(2)	NI	(0)	(0)	(1)	(0)	(1)		NI	Fp	2
		RTECS No						CAS No:			8023-79-8					
Palm kernel oil fatty acids	2332 3086	(4)	(R)	(4)	(4)	(1)	NI	NI	NI	NI	NI	NI		NI	NI	NI
		RTECS No						CAS No:			101403-98-9					
Palm kernel oil methyl esters, C12-C18	2330 3085	NI	NI		NI	NI	NI	NI	NI	NI	NI	NI		NI	NI	NI
		RTECS No						CAS No:								
Palm kernel olein (containing less than 5 % free fatty acids)	2308 3038	(0)	NI	(0)	(R)	1	NI	(0)	(0)	(0)	(0)	(0)		Ni	Fp	2
		RTECS No						CAS No:								
Palm kernel stearin (containing less than 5% free fatty acids)	2309 3039	0	(0)	(0)	(R)	0	NI	(0)	(0)	(0)	(0)	(0)		NI	Fp	2
		RTECS No						CAS No:								
Palm Mid Fraction	2363 3126	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI		NI	NI	NI
		RTECS No						CAS No:								
Palm oil (containing less than 15% free fatty acids)	2319 3049	0	NI	0	R	0	NI	0	(0)	(1)	(0)	(1)		NI	Fp	2
		RTECS No						CAS No:								
Palm oil (containing less than 5% free fatty acids)	2249 2764	0	NI	0	R	0	NI	0	(0)	(0)	0	0		NI	Fp	2
		RTECS No						CAS No:			8023-79-8					

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Palm oil (high FFA)	2364	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI		NI	NI	NI
	3127	RTECS No					CAS No:									
Palm oil fatty acid methyl ester	1097	0	NI	0	R	0	NI	(0)	(0)	(0)	(0)	(1)		NI	Fp	1
	554	RTECS No					CAS No:					91051-34-2				
Palm olein (containing less than 5% free fatty acids)	2250	0	NI	0	R	0	NI	0	(0)	(0)	0	0		NI	Fp	2
	2765	RTECS No					CAS No:					8023-79-8				
Palm stearin (containing less than 5% free fatty acids)	2251	0	NI	0	R	0	NI	0	(0)	(0)	0	0		NI	Fp	2
	555	RTECS No					CAS No:					8002-75-3				
Paraffin wax	1086	0	NI	0	R	0	NI	(0)	(0)	(1)	1	1		NI	Fp	2
	556	RTECS No RV0350000					CAS No:					8002-74-2				
Paraldehyde	1098	0	0	0	NR	0	NI	1	0	0	1	3		NI	D	3
	557	RTECS No YK0525000					CAS No:					123-63-7				
Paraldehyde-ammonia reaction product	2131	1	NI	1	R	2	NI	2	1	(3)	3B	3		NI	FED	3
	1989	RTECS No					CAS No:					68391-11-7				
Pentachloroethane	1099	3	2	2	NI	3	1	1	(1)	1	(1)	(1)	CT	NI	S	3
	558	RTECS No KI6300000					CAS No:					76-01-7				
1,3-Pentadiene	1102	2	NI	2	NI	2	NI	(0)	(0)	0	NI	NI		NI	E	2
	14	RTECS No RZ2464000					CAS No:					504-60-9				
Pentaethylenhexamine	1103	0	NI	0	NI	4	NI	1	(2)	(3)	3	(3)	S	NI	D	3
	560	RTECS No RZ2680000					CAS No:					4067-16-7				
Pentane (all isomers)	1105	3	NI	3	R	3	NI	0	0	0	1	1		NI	E	2
	561	RTECS No RZ9450000					CAS No:					109-66-0				
Pentanoic acid	1109	1	NI	1	NI	2	NI	1	2	(3)	3	3		NI	FD	3
	562	RTECS No YV6100000					CAS No:					109-52-4				
n-Pentanoic acid (64%)/2-Methyl butyric acid (36%) mixture	2144	(1)	NI	(1)	NI	(2)	NI	(1)	(2)	(3)	3	(3)		NI	FD	3
	2211	RTECS No					CAS No:									

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Pentene (all isomers)	1992 563	2	NI	2	NI	(2)	NI	(0)	(0)	(0)	(0)	(1)		NI	E	2
			RTECS No					CAS No:								
1-Pentene	1114 2679	2	NI	2	NI	(2)	NI	(0)	(0)	0	(0)	(1)		NI	E	2
			RTECS No					CAS No:						109-67-1		
2-Pentene	1115 2678	2	NI	2	NI	2	NI	(0)	(0)	(1)	(0)	(1)		NI	E	2
			RTECS No					CAS No:						109-68-2		
iso-Pentene	1113 2677	2	NI	2	NI	2	NI	(0)	(0)	(0)	(0)	(1)		NI	E	2
			RTECS No		EM7600000			CAS No:						563-45-1		
n-Pentyl propionate	1484 484	2	NI	2	R	2	NI	0	0	(2)	2	1		NI	F	2
			RTECS No					CAS No:						624-54-4		
Peracetic acid	1116 2694	NI	NI		NI	NI	NI	NI	NI	NI	NI	NI		NI	NI	NI
			RTECS No		SD8750000			CAS No:								
Perchloroethylene	1295 564	3	2	2	NR	(3)	2	0	0	0	2	1	C	NI	S	3
			RTECS No		KX3850000			CAS No:						127-18-4		
Petrolatum	2244 565	0	NI	0	NR	0	NI	0	0	2	1	1		NI	Fp	2
			RTECS No					CAS No:						8002-74-2		
Phenol	1124 566	1	2	2	R	3	0	2	2	(3)	3	3		NT	S	3
			RTECS No		SJ3325000			CAS No:						108-95-2		
1-Phenyl-1-xylyl ethane	1135 23	5	4	4	NR	(2)	NI	1	0	(1)	(0)	0		NI	F	1
			RTECS No		CZ7300000			CAS No:						40766-31-2		
Phosphate esters, alkyl (C12-C14) amine	1854 1345	2	NI	2	NR	3	NI	0	(0)	(2)	1	2		NI	FD	2
			RTECS No					CAS No:								
Phosphoric acid	1138 567	Inor	NI	INOR	Inorg	1	NI	(3)	(3)	3	3	3		NI	D	3
			RTECS No		TB6300000			CAS No:						7664-38-2		
Phosphorus, yellow or white	1139 568	Inor	(3)	(3)	Inorg	6	4	0	0	0	2	1		NI	S	2
			RTECS No		TH3500000			CAS No:						7723-14-0		

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Phthalic anhydride (molten)	1146 569	1	NI	1	R	2	0	1	0	(3)	1	3	S	NI	S	3
		RTECS No		TI3150000			CAS No:		85-44-9							
alpha-Pinene	40 109	4	NI	4	NI	4	NI	0	0	0	1	(1)	S	T	F	3
		RTECS No		DT7000000			CAS No:		80-56-8							
beta-Pinene	41 141	4	NI	4	NI	4	NI	0	0	0	1	(1)	S	NT	F	3
		RTECS No		DT5078500			CAS No:		127-91-3							
Pine oil	1148 570	4	NI	4	NR	4	NI	0	0	(1)	(1)	(1)	S	(T)	NI	2
		RTECS No		TK5100000			CAS No:		8002-09-3							
Polyacrylic acid solution (40% or less)	2302 2709	(2)	NI	(2)	NR	1	NI	0	0	(1)	1	1		NI	D	0
		RTECS No				CAS No:										
Polyalkyl (C18-C22) acrylate in Xylene	1151 580	(3)	NI	(3)	NR	2	NI	0	0	(2)	2	1		NI	Fp	2
		RTECS No				CAS No:										
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	1152 576	1	NI	1	R	1	0	0	0	0	2	2		NI	D	NI
		RTECS No				CAS No:										
Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether acetate	2254 575	1	NI	1	NR	2	1	0	0	0	2	2		NI	D	0
		RTECS No				CAS No:										
Polyalkylene oxide polyol	1441 583	NI	NI		NI	NI	NI	NI	NI	NI	NI	NI		NI	NI	NI
		RTECS No		TQ8170000			CAS No:		9082-00-2							
Polyalkyl (C10-C20) methacrylate	1984 2189	(5)	NI	(5)	NR	0	NI	0	0	0	0	0		NI	Fp	2
		RTECS No				CAS No:										
Polyalkyl (C10-C18) methacrylate/ethylene-propylene copolymer mixture	2201 2188	0	0	0	NR	0	0	0	0	(1)	1	1	A	NI	Fp	3
		RTECS No				CAS No:										
Polyaluminium chloride solution	1136 584	Inor	0	0	Inorg	0	NI	(0)	(0)	(1)	(0)	(1)		NI	D	1
		RTECS No		BD0549500			CAS No:		1327-41-9							
Polybutene	1154 585	0	NI	0	(NR)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		NI	Fp	2
		RTECS No		EM9032000			CAS No:		9003-29-6							

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Polybutenyl succinimide	2055 586	5	NI	5	NR	0	NI	(0)	(0)	(0)	0	(0)		NI	Fp	2
		RTECS No					CAS No:									
Poly(2+)cyclic aromatics	2246 574	4	4	4	NR	(4)	NI	(1)	(1)	(2)	(1)	(1)	CM	NI	S	3
		RTECS No					CAS No:					91-20-3				
Polyether (molecular weight 2000+)	1975 587	NI	NI		NI	NI	NI	NI	NI	NI	NI	NI		NI	NI	NI
		RTECS No					CAS No:					25322-68-3				
Polyetheramine		NI	NI		NI	NI	NI	NI	NI	NI	NI	NI		NI	NI	NI
	2946	RTECS No					CAS No:									
Polyether, borated	1863 572	0	NI	0	NR	3	NI	0	(0)	(1)	1	0		NI	D	1
		RTECS No					CAS No:									
Polyethylene glycol	1157 589	0	NI	0	NR	0	NI	0	0	0	1	1		NI	D	1
		RTECS No TQ3500000					CAS No:					25322-68-3				
Polyethylene glycol dimethyl ether	1158 590	0	NI	0	NR	0	NI	0	0	(1)	1	(1)		NI	D	1
		RTECS No MC9630000					CAS No:					24991-55-7				
Polyethylene polyamines	1991 591	(5)	NI	(5)	NR	3	0	0	(1)	(3)	(2)	(3)	S	NI	Fp	0
		RTECS No					CAS No:									
Polyferric sulphate solution	338 592	Inor	0	0	Inorg	(2)	NI	1	(1)	(3)	3	(3)		NI	D	3
		RTECS No					CAS No:									
Polyglycerin, sodium salt solution (containing less than 3% sodium hydroxide)	1874 593	0	NI	0	R	0	NI	0	0	(3)	(2)	3		NI	D	3
		RTECS No					CAS No:									
Polyglycerol	1511 594	NI	NI	NI	NI	NI	NI	0	(0)	(0)	(0)	(0)		NI	D	0
		RTECS No					CAS No:					25618-55-7				
Poly(iminoethylene)-graft-N-poly(ethyleneoxy) solution (90% or less)	2287 2537	0	0	0	NR	0	NI	0	0	(1)	0	1		NI	D	1
		RTECS No					CAS No:					68130-99-4				
Polyisobutenamine in aliphatic (C10-C14) solvent	2192 2374	0	0	0	NR	2	NI	0	(0)	(2)	2	1		NI	FED	2
		RTECS No					CAS No:									

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Polyisobutenyl anhydride adduct	2127 2256	0	NI	0	NR	0	NI	0	0	(1)	0	1		NI	FD	1
			RTECS No					CAS No:								
Poly(4+)isobutylene	2264 578	0	NI	0	NR	0	NI	(0)	(0)	(0)	(0)	(0)		NI	Fp	2
			RTECS No					CAS No:							629-73-2	
Polymethylene polyphenyl isocyanate	1153 595	NI	(2)	(2)	NR	0	0	0	0	(2)	2	2	S	NI	S	2
			RTECS No		TR0350000			CAS No:							9016-87-9	
Polyolefin (molecular weight 300+)	1968 596	0	NI	0	NR	0	NI	0	0	0	0	0		NI	Fp	2
			RTECS No					CAS No:								
Polyolefin amide alkeneamine (C17+)	2104 597	5	NI	5	NR	0	NI	0	0	(1)	1	(1)		NI	Fp	2
			RTECS No					CAS No:								
Polyolefin amide alkeneamine borate (C28-C250)	1970 600	0	NI	0	NR	0	NI	0	0	(0)	0	(0)		NI	Fp	2
			RTECS No					CAS No:								
Polyolefin amide alkeneamine/molybdenum oxysulphide mixture	2256 603	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI		NI	NI	NI
			RTECS No					CAS No:								
Polyolefin amide alkeneamine polyol	1989 602	0	NI	0	NI	0	NI	0	0	(0)	0	(0)		NI	NI	0
			RTECS No					CAS No:								
Poly (17+) olefin amine	2049 571	0	NI	0	NR	2	NI	0	(0)	(1)	(1)	(1)		NI	Fp	2
			RTECS No					CAS No:							98761-78-5	
Polyolefinamine (C28-C250)	2107 609	0	NI	0	NR	2	NI	0	(0)	(2)	2	(1)		NI	Fp	2
			RTECS No					CAS No:								
Polyolefinamine in alkyl (C2-C4) benzenes	2107 610	0	NI	0	NR	2	NI	0	(0)	(2)	2	(1)		NI	Fp	2
			RTECS No					CAS No:								
Polyolefinamine in aromatic solvent	2107 611	0	NI	0	NR	2	NI	0	(0)	(2)	2	(1)		NI	Fp	2
			RTECS No					CAS No:								
Polyolefin aminoester salts (mw 2000+)	2095 604	0	NI	0	NR	1	NI	0	0	(1)	1	(1)		NI	Fp	2
			RTECS No					CAS No:								

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Polyolefin anhydride	1865 605	0	NI	0	NR	1	NI	0	0	(2)	1	(2)		NI	Fp	2
			RTECS No					CAS No:								67762-77-0
Polyolefin ester (C28-C250)	1969 606	0	NI	0	NR	0	NI	0	0	(0)	0	0		NI	Fp	2
			RTECS No					CAS No:								
Polyolefin phenolic amine (C28-C250)	1980 607	0	NI	0	NI	0	NI	0	0	(1)	(1)	(1)		NI	Fp	2
			RTECS No					CAS No:								
Polyolefin phosphorusulphide, barium derivative (C28-C250)	1976 608	0	NI	0	NI	2	NI	0	(0)	(0)	(0)	(0)		NI	S	0
			RTECS No					CAS No:								
Poly(20)oxyethylene sorbitan monooleate	1442 577	3	NI	3	NI	(3)	NI	0	(0)	(1)	0	1		NI	D	1
			RTECS No			WG2932500		CAS No:								9005-65-6
Polyoxypropylene diamine	2824	NI	NI		NI	NI	NI	NI	NI	NI	NI	NI		NI	NI	NI
			RTECS No					CAS No:								9046-10-0
Polyoxypropylene diamine (mw 2000)	3014	NI	NI		NI	NI	NI	NI	NI	NI	NI	NI		NI	NI	NI
			RTECS No					CAS No:								
Poly(5+)propylene	1512 579	0	NI	0	NR	(0)	NI	(0)	(0)	(0)	(0)	(0)		NI	F	1
			RTECS No			UD1842000		CAS No:								9003-07-0
Polypropylene glycol	1159 612	0	NI	0	(NR)	1	NI	1	0	(1)	1	1		NI	D	1
			RTECS No			TR6125000		CAS No:								25322-69-4
Polysiloxane	1161 613	NI	4	4	NI	2	NI	0	(0)	(0)	0	0		NI	F	1
			RTECS No					CAS No:								
Poly(tetramethylene ether) glycol (mw 600-3000)	2147 2540	2	NI	2	NI	3	NI	0	NI	1	2	1		NI	FD	2
			RTECS No					CAS No:								
Potassium chloride brine	2345 3109	Inor	0	0	Inorg	1	0	0	(0)	(1)	0	0		NI	D	0
			RTECS No					CAS No:								7447-40-7
Potassium chloride solution (10% or more)	1513 614	Inor	0	0	Inorg	1	0	0	(0)	(1)	0	1		NI	D	2
			RTECS No			TS8050000		CAS No:								7447-40-7

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Potassium formate solutions	2121 615	0	NI	0	R	0	NI	(0)	(0)	(2)	2	2		NI	D	2
			RTECS No		LQ9625000			CAS No:								520-29-4
Potassium hydroxide solution	1171 616	Inor	0	0	Inorg	2	NI	2	(2)	(3)	3C	3		NI	D	3
			RTECS No		TT2100000			CAS No:								1310-58-3
Potassium oleate	1497 617	3	NI	3	R	4	NI	(0)	(0)	(1)	1	1		NI	FD	1
			RTECS No		RK1150000			CAS No:								143-18-0
Potassium salt of polyolefin acid	1895 2199	NI	NI	NI	NR	0	NI	0	0	(0)	0	0		NI	NI	0
			RTECS No					CAS No:								
Potassium thiosulphate (50% or less)	2152 2335	Inor	0	0	Inorg	2	NI	0	0	(2)	2	(2)		NI	D	2
			RTECS No					CAS No:								10294-66-3
n-Propanolamine	1183 485	0	NI	0	R	2	NI	0	1	(3)	3	3		NI	D	3
			RTECS No		UA5600000			CAS No:								156-87-6
beta-Propiolactone	1184 142	0	NI	0	R	(2)	NI	2	(2)	4	3B	3	CM	NI	D	3
			RTECS No		RQ7350000			CAS No:								57-57-8
Propionaldehyde	1185 619	0	NI	0	R	2	NI	1	0	1	2	2		NI	DE	2
			RTECS No		UE0350000			CAS No:								123-38-6
Propionic acid	1186 620	0	NI	0	R	2	NI	0	0	(3)	3B	3		NI	D	3
			RTECS No		UE5950000			CAS No:								79-09-4
Propionic anhydride	1187 621	0	NI	0	R	2	NI	0	0	(3)	2	3		NI	FD	3
			RTECS No		UF9100000			CAS No:								123-62-6
Propionitrile	1188 622	0	NI	0	NI	0	NI	3	3	4	1	2	R	NI	D	3
			RTECS No		UF9625000			CAS No:								107-12-0
n-Propyl acetate	1191 487	1	NI	1	R	2	NI	0	0	0	1	1		NI	ED	1
			RTECS No		AJ3675000			CAS No:								109-60-4
n-Propyl alcohol	1180 488	0	NI	0	R	0	NI	1	0	0	1	2	R	NI	D	3
			RTECS No		UH8225000			CAS No:								71-23-8

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
n-Propylamine	1194 490	0	NI	0	NI	1	NI	2	2	3	3	3		NI	DE	3
			RTECS No		UH9100000			CAS No:								107-10-8
Propylbenzene	1196 2686	NI	NI		NI	3	NI	NI	NI	NI	NI	NI		(T)	FE	NI
			RTECS No		DA8750000			CAS No:								103-65-1
Propylbenzene (all isomers)	1197 623	3	2	2	R	3	NI	0	0	0	2	1		NI	FE	2
			RTECS No		GR8575000			CAS No:								98-82-8
n-Propyl chloride	1198 489	2	NI	2	NI	1	NI	0	NI	NI	NI	NI		NI	FED	2
			RTECS No		TX4400000			CAS No:								540-54-5
Propylene-Butylene copolymer	1508 633	NI	NI	NI	NI	NI	NI	(0)	(0)	(0)	(0)	(0)		NI	NI	0
			RTECS No					CAS No:								
Propylene carbonate	2056 624	0	NI	0	R	0	NI	0	0	(3)	2	3		NI	D	3
			RTECS No		FF9650000			CAS No:								108-32-7
Propylene dimer	1201 625	3	NI	3	R	3	NI	NI	NI	NI	NI	NI		NI	E	2
			RTECS No					CAS No:								
Propylene glycol	1202 626	0	NI	0	R	0	0	0	0	(1)	0	1		NI	D	1
			RTECS No		TY2000000			CAS No:								57-55-6
Propylene glycol methyl ether acetate	1759 627	0	NI	0	NR	1	NI	0	0	0	0	1		NI	D	1
			RTECS No		AI8925000			CAS No:								108-65-6
Propylene glycol monoalkyl ether	1958 628	0	NI	0	NR	0	NI	0	1	0	2	3		NI	D	3
			RTECS No					CAS No:								111-35-3
Propylene glycol phenyl ether	2057 629	1	NI	1	NI	1	NI	0	0	(1)	(1)	(1)		NI	SD	1
			RTECS No		UB8886000			CAS No:								
Propylene oxide	76 630	0	NI	0	R	2	NI	1	1	2	2	3	CMR	NI	DE	3
			RTECS No		TZ2975000			CAS No:								75-56-9
Propylene tetramer	2255 631	4	NI	4	NR	(4)	NI	(0)	(0)	(1)	(1)	(1)		NI	F	1
			RTECS No					CAS No:								6842-15-5

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3		
Propylene trimer	1207 632	5	4	4	NR	3	2	(0)	(0)	(1)	(1)	(1)		NI	FE	2		
		RTECS No			UD2794000	CAS No:						13987-01-4						
Pyridine	1213 634	0	NI	0	NI	3	0	1	1	2	1	3		NT	D	3		
		RTECS No			UR8400000	CAS No:						110-86-1						
Pyrolysis gasoline	2271 1990	(4)	(3)	(3)	(R)	(3)	(1)	1	0	(2)	2	2	TCM	NI	FE	3		
		RTECS No			CAS No:													
Rapeseed oil (high erucic acid; containing less than 4% free fatty acids)	2315 3045	0	NI	0	R	(2)	NI	(0)	(0)	(0)	(1)	(1)		Ni	Fp	2		
		RTECS No			CAS No:													
Rapeseed oil (low erucic acid, containing less than 4% free fatty acids)	2296 2956	0	NI	0	R	(2)	NI	0	0	0	(1)	(1)		NI	Fp	2		
		RTECS No			CAS No:													
Rape seed oil fatty acid methyl esters	2209 2576	0	0	0	R	0	NI	0	(0)	(1)	1	1		NI	Fp	2		
		RTECS No			CAS No:			67762-38-3										
Rice bran oil (containing less than 15% free fatty acids)	2312 3043	(0)	NI	(0)	(R)	(0)	NI	0	(0)	(1)	0	1		NI	Fp	2		
		RTECS No			CAS No:			68553-81-1										
Rosin	1219 635	3	NI	3	NR	3	NI	0	0	2	(1)	1	S	NI	S	2		
		RTECS No			CAS No:			8050-09-7										
Rosin soap (disproportionated) solution	1220 636	3	NI	3	NR	3	NI	0	NI	NI	NI	NI		NI	S	NI		
		RTECS No			CAS No:													
Safflower oil (containing less than 5% free fatty acids)	1222 3041	(0)	NI	(0)	(R)	(0)	NI	(0)	(0)	(1)	1	1		0	Fp	1		
		RTECS No			VN2230000	CAS No:												
Shea butter (containing less than 15% Free Fatty Acids)	2311 3042	(0)	NI	(0)	NI	(0)	NI	(0)	(0)	(1)	(0)	(1)		NI	Fp	2		
		RTECS No			CAS No:			91080-23-8										
Sodium acetate solutions	1498 639	0	NI	0	R	0	NI	0	0	0	1	1		NI	D	1		
		RTECS No			AJ4375000	CAS No:			127-09-3									
Sodium alkyl (C14-C17) sulphonates (60-65% solution)	334 1153	2	2	2	R	3	1	0	0	(2)	2	2		NI	D	2		
		RTECS No			CAS No:			85711-69-9										

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Sodium aluminate solution	1234	Inor	0	0	Inorg	NI	NI	(0)	(0)	(3)	(3)	(3)		NI	D	3
	641	RTECS No			BD1600000			CAS No:						11138-49-1		
Sodium aluminosilicate slurry	1235	Inor	0	0	Inorg	1	0	0	0	0	1	1		NI	S	1
	643	RTECS No						CAS No:						1344-00-9		
Sodium benzoate	1475	0	NI	0	R	1	NI	0	(0)	(1)	0	1		NI	D	1
	644	RTECS No			DH6650000			CAS No:						532-32-1		
Sodium borohydride (15% or less)/Sodium hydroxide solution	1239	Inor	0	0	Inorg	2	NI	(2)	(1)	(3)	(3)	(3)		NI	D	3
	645	RTECS No						CAS No:								
Sodium carbonate solution	1243	Inor	0	0	Inorg	1	NI	0	0	3	1	2		NI	SD	2
	646	RTECS No			VZ4050000			CAS No:						497-19-8		
Sodium chlorate solution (50% or less)	1244	Inor	0	0	Inorg	1	NI	1	0	(2)	1	1	S	NI	D	2
	647	RTECS No			FO0525000			CAS No:						7775-09-9		
Sodium dichromate solution (70% or less)	487	Inor	0	0	Inorg	2	1	2	2	4	2	3	CMS	NI	D	3
	649	RTECS No			HX7700000			CAS No:						10588-01-9		
Sodium hydrogen sulphide (6% or less)/Sodium carbonate (3% or less) solution	2262	Inor	NI	Inorg	Inorg	1	NI	0	0	0	0	1		NI	D	1
	650	RTECS No						CAS No:						16721-80-5		
Sodium hydrogen sulphite solution (45% or less)	1251	Inor	0	0	Inorg	1	NI	0	(0)	(0)	0	0		NI	D	0
	651	RTECS No			VZ2000000			CAS No:						7631-90-5		
Sodium hydrosulphide/Ammonium sulphide solution	1253	Inor	0	0	Inorg	3	NI	1	1	0	2	2		NI	D	2
	653	RTECS No						CAS No:								
Sodium hydrosulphide solution (45% or less)	1252	Inor	0	0	Inorg	1	NI	1	1	1	2	2		NI	D	2
	652	RTECS No			WE1900000			CAS No:						16721-80-5		
Sodium hydroxide solution	1254	Inor	0	0	Inorg	2	NI	1	1	(3)	3C	3		NI	D	3
	654	RTECS No			WB4900000			CAS No:						1310-73-2		
Sodium hypochlorite solution (15% or less)	1256	Inor	0	0	Inorg	(4)	(1)	0	0	1	3	3	S	NI	D	3
	2785	RTECS No			NH3486300			CAS No:						7681-52-9		

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Sodium hypochlorite solution (Full strength solution)	1255 655	Inor	0	0	Inorg	5	2	0	0	1	3	3	S	NI	D	3
		RTECS No			NH3486300			CAS No:								7681-52-9
Sodium nitrate	1259 656	Inor	0	0	Inorg	0	NI	(0)	(0)	(0)	(1)	(1)		NI	D	NI
		RTECS No			WC5600000			CAS No:								7631-99-4
Sodium nitrite (solid)	340 657	Inor	0	0	Inorg	3	0	2	(2)	2	0	1		NI	SD	2
		RTECS No			RA1225000			CAS No:								7632-00-0
Sodium nitrite solution	340 658	Inor	0	0	Inorg	3	0	2	(2)	2	0	1		NI	SD	2
		RTECS No			RA1225000			CAS No:								7632-00-0
Sodium perborate monohydrate	2284 2948	Inor	NI	NI	Inorg	3	NI	1	0	(3)	2	3		NI	NI	3
		RTECS No						CAS No:								11138-47-9
Sodium petroleum sulphonate	1860 660	0	NI	0	(NR)	2	NI	0	(0)	(2)	1	2	S	NI	S	2
		RTECS No						CAS No:								68608-26-4
Sodium poly(4+)acrylate solutions	1487 826	0	NI	0	NR	1	0	0	(0)	(1)	1	1		NI	D	1
		RTECS No						CAS No:								9003-04-7
Sodium silicate solution	1262 661	Inor	0	0	Inorg	2	NI	1	0	(3)	3	3		NI	D	3
		RTECS No						CAS No:								1344-09-8
Sodium sulphate solutions	1499 662	Inor	0	0	Inorg	0	0	0	(0)	(1)	1	1		NI	SD	1
		RTECS No			WE1650000			CAS No:								7757-82-6
Sodium sulphide (solid)	2263 2786	NI	NI		NI	NI	NI	NI	NI	NI	NI	NI		NI	NI	NI
		RTECS No						CAS No:								1313-82-2
Sodium sulphide solution (15% or less)	1263 663	Inor	0	0	Inorg	3	NI	1	1	(3)	3A	3		NI	D	3
		RTECS No			WE1905000			CAS No:								1313-82-2
Sodium sulphite solution (25% or less)	9 664	Inor	0	0	Inorg	2	NI	0	(0)	(1)	0	1		NI	D	1
		RTECS No			WE2150000			CAS No:								7757-83-7
Sodium tartrates/Sodium succinates solution	1771 665	NI	1	1	NI	1	NI	0	NI	NI	NI	NI		NI	D	NI
		RTECS No						CAS No:								

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Sodium thiocyanate solution (56% or less)	1264 667	Inor	0	0	Inorg	2	NI	1	(0)	(1)	0	0		NI	D	1
		RTECS No			XL2275000			CAS No:								540-72-7
Sorbitol solution	1265 668	0	NI	0	R	0	NI	0	(0)	(0)	(0)	(0)		NI	D	0
		RTECS No			LZ4290000			CAS No:								50-70-4
Soyabean acid oil	2336 3090	NI	NI		NI	NI	NI	NI	NI	NI	NI	NI		NI	NI	NI
		RTECS No						CAS No:								
Soyabean oil (containing less than 0.5% free fatty acids)	1267 2770	0	NI	0	R	0	NI	0	(0)	(1)	(0)	1		NI	Fp	2
		RTECS No			WG4862000			CAS No:								8001-22-7
Soyabean oil (containing less than 4% free fatty acids)	2320 3050	0	NI	0	R	0	NI	0	(0)	(1)	(0)	1		NI	Fp	2
		RTECS No						CAS No:								
Styrene monomer	1273 669	3	(2)	3	R	3	NI	1	0	2	2	2	CM	NI	FE	3
		RTECS No			WL3675000			CAS No:								100-42-5
Sulphohydrocarbon (C3-C88)	1972 672	4	NI	4	NR	2	NI	0	0	0	0	0		NI	Fp	2
		RTECS No						CAS No:								68511-50-2
Sulpho hydrocarbon long chain (C18+) alkylamine mixture	2003 670	NI	NI	NI	NI	3	NI	0	0	(2)	2	2		NI	S	2
		RTECS No						CAS No:								
Sulpholane	1277 673	0	1	1	NR	2	0	1	0	0	1	2		NI	SD	2
		RTECS No			XN0700000			CAS No:								126-33-0
Sulphonated polyacrylate solution	1760 674	NI	0	0	NI	0	NI	(0)	(0)	(0)	(0)	(0)		NI	NI	0
		RTECS No						CAS No:								
Sulphur (molten)	906 675	Inor	0	0	Inorg	0	NI	0	0	(1)	1	1		NI	S	1
		RTECS No			WS4250000			CAS No:								7704-34-9
Sulphuric acid	1280 676	Inor	NI	Inorg	Inorg	2	NI	(3)	(3)	4	3C	3	C	NI	D	3
		RTECS No			WS5600000			CAS No:								7664-93-9
Sulphuric acid, spent	1280 677	Inor	NI	Inorg	Inorg	2	NI	(3)	(3)	4	3C	3	C	NI	D	3
		RTECS No			WS5600000			CAS No:								7664-93-9

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Sulphurized fat (C14-C20)	1853 2257	0	NI	0	NR	1	NI	0	(0)	(1)	0	(1)		NI	FD	1
			RTECS No					CAS No:								
Sulphurized polyolefinamide alkene (C28-C250) amine	1855 2258	0	NI	0	NR	0	NI	0	0	(0)	0	0		NI	FD	0
			RTECS No					CAS No:								
Sunflowerseed acid oil	2337 3091	NI	NI		NI	NI	NI	NI	NI	NI	NI	NI		NI	NI	NI
			RTECS No					CAS No:								
Sunflower seed oil (containing less than 7% free fatty acids)	1283 2782	0	NI	0	R	0	NI	(0)	(0)	(1)	(0)	(1)		NI	Fp	2
			RTECS No					CAS No:						8000-21-6		
Tall oil (crude and distilled)	1285 678	0	NI	0	(R)	2	NI	0	0	(0)	0	0	S	NI	Fp	2
			RTECS No					CAS No:						68187-71-3		
Tall oil crude	2357 3118	4	NI	4	R	2	NI	0	0	(0)	0	0	S	NI	Fp	2
			RTECS No					CAS No:								
Tall oil distilled	2283 2890	0	NI	0	R	0	NI	0	(0)	(0)	0	(0)		NI	Fp	2
			RTECS No					CAS No:						8002-26-4		
Tall oil fatty acid (resin acids less than 20%)	1287 679	0	0	0	R	0	NI	0	0	(1)	1	1		NI	Fp	2
			RTECS No					CAS No:						61790-12-3		
Tall oil fatty acid, barium salt	1864 680	NI	NI	NI	NI	NI	NI	(1)	(0)	(2)	1	2		NI	S	2
			RTECS No					CAS No:								
Tall oil pitch	2323 3051	3	NI	3	NR	0	NI	0	0	(0)	0	(0)	S	NI	Fp	2
			RTECS No					CAS No:						8016-81-7		
Tall oil soap (disproportionated) solution	1286 681	NI	NI	NI	NI	NI	NI	(1)	(0)	(2)	1	2		NI	D	2
			RTECS No					CAS No:								
Tallow (containing less than 15% free fatty acids)	1288 682	0	NI	0	R	0	NI	0	0	(0)	(0)	(0)		NI	Fp	2
			RTECS No					CAS No:						61789-21-6		
Tallow fatty acid	1289 684	0	NI	0	R	0	NI	0	(0)	(0)	(0)	(0)		NI	Fp	2
			RTECS No					CAS No:						6170-37-2		

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Tetrachloroethane	53 687	2	2	2	NR	3	0	2	0	2	2	2	MN	NI	SD	3
		RTECS No			KI8575000	CAS No:			79-34-5							
Tetraethylene glycol	1301 688	0	NI	0	NR	0	NI	0	0	0	1	1		NI	D	1
		RTECS No			XC2100000	CAS No:			112-60-7							
Tetraethylene pentamine	1302 689	0	NI	0	NR	3	NI	0	2	(3)	3	3	S	NI	D	3
		RTECS No			KH8585000	CAS No:			112-57-2							
Tetraethyl silicate monomer/oligomer (20% in ethanol)	2198 2475	0	0	0	R	0	0	0	0	0	1	2		NI	DE	2
		RTECS No			CAS No:			78-10-4								
Tetrahydrofuran	1304 690	0	NI	0	R	0	NI	0	(0)	0	1	2		NI	DE	2
		RTECS No			LU5950000	CAS No:			109-99-9							
Tetrahydronaphthalene	1305 691	3	3	3	NR	3	NI	0	0	(2)	2	0		NI	F	2
		RTECS No			QK3850000	CAS No:			119-64-2							
Tetramethylbenzene (all isomers)	1307 692	4	NI	4	NI	4	NI	0	(0)	(1)	1	(1)		NI	F	1
		RTECS No			DC0465000	CAS No:			488-23-3							
Thixatrol Plus	2210 2699	5	NI	5	R	3	NI	0	0	0	1	1		NI	S	1
		RTECS No			CAS No:											
Titanium dioxide slurry	2080 2259	Inor	1	1	Inorg	1	NI	0	0	0	1	1		NI	NI	1
		RTECS No			CAS No:			1317-80-2								
Toluene	330 693	2	2	2	R	3	0	0	0	0	2	2	ANR	NT	E	3
		RTECS No			XS5250000	CAS No:			108-88-3							
Toluenediamine	1317 695	0	2	2	NR	3	0	2	2	4	1	2	CMS	NI	Fp	3
		RTECS No			XS9625000	CAS No:			95-80-7							
Toluene diisocyanate	1315 694	(3)	1	1	NR	2	NI	0	(0)	4	3	3	SCL	NI	S	3
		RTECS No			CZ6300000	CAS No:			584-84-9							
o-Toluidine	1316 537	1	1	1	R	4	2	1	0	(2)	2	2	CM	NI	FD	3
		RTECS No			CAS No:											

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Tolyl triazole	2292 696	1	NI	1	NR	2	0	1	0	(2)	(1)	(2)		NI	S	0
		RTECS No						CAS No:						29385-43-1		
Tributyl phosphate	1319 697	4	2	2	R	3	0	1	0	2	2	2	S	NI	F	3
		RTECS No			TC7700000			CAS No:						126-73-8		
1,2,3-Trichlorobenzene (molten)	2191 2288	4	4	4	NR	4	2	1	0	(2)	2	2		NI	S	2
		RTECS No						CAS No:						87-61-6		
1,2,4-Trichlorobenzene	1323 7	4	5	5	NR	4	1	1	0	(2)	2	2	M	NI	S	3
		RTECS No			DC2100000			CAS No:						120-82-1		
1,1,1-Trichloroethane	1326 1	2	NI	2	NR	2	NI	0	0	0	2	2		NI	SD	2
		RTECS No			KJ2975000			CAS No:						71-55-6		
1,1,2-Trichloroethane	1327 3	2	1	1	NR	2	0	1	0	1	2	1		NI	SD	2
		RTECS No			KJ3150000			CAS No:						79-00-5		
Trichloroethylene	329 698	2	2	2	NR	3	NI	0	0	0	2	2	CM	NI	SD	3
		RTECS No			KX4550000			CAS No:						79-01-6		
1,2,3-Trichloropropane	1329 6	2	2	2	NR	2	0	2	2	3	2	2	C	NI	SD	3
		RTECS No			TZ9275000			CAS No:						96-18-4		
1,1,2-Trichloro-1,2,2-Trifluoroethane	1330 2	3	2	2	NR	3	0	0	0	0	1	1		NI	S	1
		RTECS No			KJ4000000			CAS No:						76-13-1		
Tricresyl phosphate (containing 1% or more ortho-isomer)	1332 699	5	3	3	R	4	4	0	1	0	1	1	N	NI	S	2
		RTECS No			TD0175000			CAS No:						1330-78-5		
Tricresyl phosphate (containing less than 1% ortho-isomer)	1331 700	5	(3)	(3)	(R)	(4)	(4)	0	1	0	1	1	N	NI	S	2
		RTECS No			TD0175000			CAS No:						1330-78-5		
Tridecane	1333 701	0	NI	0	NI	0	NI	0	0	(1)	1	0		NI	Fp	2
		RTECS No			YD3025000			CAS No:						629-50-5		
Tridecanoic acid	1334 702	5	NI	5	(R)	3	NI	(0)	(0)	(1)	(1)	(1)		NI	Fp	2
		RTECS No			YD3850000			CAS No:						638-53-9		

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Tridecyl acetate	1768 703	5	NI	5	NI	0	NI	0	(0)	(2)	2	2		NI	F	2
		RTECS No					CAS No:					1072-33-9				
Triethanolamine	1338 704	0	0	0	R	1	NI	0	0	(2)	1	2		NI	D	2
		RTECS No KL9275000					CAS No:					102-71-6				
Triethylamine	1339 706	1	0	0	R	3	0	1	2	2	2	3		NI	D	3
		RTECS No YE0175000					CAS No:					121-44-8				
Triethylbenzene	1340 707	5	NI	5	NI	4	NI	0	(0)	(2)	(2)	(1)		NI	F	2
		RTECS No DC2490000					CAS No:					25340-18-5				
Triethylene glycol	1341 708	0	NI	0	R	0	0	0	0	(1)	1	1		NI	D	1
		RTECS No YE4550000					CAS No:					112-27-6				
Triethylenetetramine	1346 709	0	NI	0	NR	3	NI	0	2	(3)	3	3	S	NI	D	3
		RTECS No YE6650000					CAS No:					112-24-3				
Triethyl phosphate	1348 705	0	0	0	NR	1	0	1	0	0	(2)	(2)		NI	D	2
		RTECS No TC7900000					CAS No:					78-40-0				
Triethylphosphite	1349 710	0	NI	0	R	1	NI	1	0	2	1	2	S	NI	FE	3
		RTECS No TH1130000					CAS No:					122-52-1				
Triisopropanolamine	1370 711	0	0	0	NR	1	0	1	0	0	(2)	3		NI	FD	3
		RTECS No UB8750000					CAS No:					122-20-3				
Triisopropylated phenyl phosphates	1375 712	5	5	5	R	4	NI	0	0	0	0	0		NI	S	0
		RTECS No					CAS No:					68937-41-7				
Trimethylacetic acid	1350 714	1	1	1	R	2	NI	1	1	(2)	2	2		NI	Fp	2
		RTECS No TO7700000					CAS No:					75-98-9				
Trimethylamine solution (30% or less)	1353 715	0	NI	0	R	1	NI	1	0	2	3	3		NI	DE	3
		RTECS No PA0350000					CAS No:					75-50-3				
Trimethylbenzene (all isomers)	1354 716	3	3	3	NR	4	0	0	0	1	2	1		NI	FE	2
		RTECS No DC3300000					CAS No:					526-73-8				

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Trimethylhexamethylenediamine (2,2,4- and 2,4,4-isomers)	1359 718	1	NI	1	NI	NI	NI	1	0	(3)	2	3	S	NI	D	3
			RTECS No		MO1451000			CAS No:						26520-58-0		
Trimethylhexamethylene diisocyanate (2,2,4- and 2,4,4-isomers)	1360 717	0	NI	0	NI	3	NI	0	NI	NI	NI	NI	S	NI	NI	2
			RTECS No		MO1760000			CAS No:						28679-16-5		
Trimethylolpropane polyethoxylate	1362 719	NI	NI	NI	NR	1	NI	0	0	NI	NI	NI		NI	NI	0
			RTECS No					CAS No:						25723-16-4		
Trimethylol propane propoxylated	2274 2870	0	NI	0	(NR)	1	0	0	0	(1)	0	1		NI	NI	1
			RTECS No					CAS No:						25723-16-4		
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate	1845 26	4	NI	4	NI	0	NI	0	0	(1)	1	0		NI	F	1
			RTECS No					CAS No:						6846-50-0		
2,2,4-Trimethyl-1,3-pentanediol-1-isobutyrate	1364 27	3	NI	3	NI	2	NI	0	0	(1)	1	1		NI	Fp	2
			RTECS No		UF6000000			CAS No:						25265-77-4		
Trimethyl phosphite	1365 713	0	NI	0	R	NI	NI	NI	NI	NI	NI	NI		NI	S	NI
			RTECS No		TH1400000			CAS No:						121-45-9		
1,3,5-Trioxane	1844 10	0	NI	0	NI	0	NI	0	0	0	0	1	R	NI	SD	3
			RTECS No		YK0350000			CAS No:						110-88-3		
Tripropylene glycol	1372 720	0	0	0	NR	0	NI	0	0	(0)	0	0		NI	D	0
			RTECS No		YK6825000			CAS No:						24800-44-0		
Trixylyl phosphate	1377 721	5	4	4	NR	4	1	(0)	(1)	(2)	(1)	(1)		NI	S	2
			RTECS No		ZE8320000			CAS No:						25155-23-1		
Tung oil (containing less than 2.5% free fatty acids)	1378 2784	0	NI	0	R	(2)	NI	(0)	(0)	(1)	(0)	(1)		NI	Fp	2
			RTECS No					CAS No:						8001-20-5		
Turpentine	1379 722	4	NI	4	NI	4	NI	0	(0)	1	(2)	2	AS	(T)	D	2
			RTECS No		YO8400000			CAS No:						8006-64-2		
Undecanoic acid	1381 723	4	NI	4	(R)	3	NI	(0)	(0)	(2)	1	(2)		NI	Fp	2
			RTECS No		YQ2275000			CAS No:						112-37-8		

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3	
1-Undecene	1383 24	5	NI	5	NR	4	NI	(0)	(0)	(1)	(1)	(1)		NI	F	1	
		RTECS No						CAS No:							821-95-4		
Undecyl alcohol	1382 724	4	NI	4	R	4	NI	0	0	(2)	2	(1)		NI	Fp	2	
		RTECS No			YQ3155000			CAS No:							112-42-5		
Urea	1384 2627	0	0	0	R	1	NI	0	0	(1)	1	(1)		NI	D	1	
		RTECS No			YR6250000			CAS No:									
Urea/Ammonium mono- and di-hydrogen phosphate/Potassium chloride solution	1386 727	0	0	0	R	3	2	NI	NI	NI	NI	NI		NI	NI	NI	
		RTECS No						CAS No:									
Urea/Ammonium nitrate solution	2322 728	Inor	NI	Inorg	R	1	NI	0	0	(2)	1	2		NI	D	2	
		RTECS No						CAS No:									
Urea/Ammonium nitrate solution (containing aqua ammonia)	1387 729	Inor	NI	Inorg	R	3	2	0	0	(2)	1	2		NI	D	2	
		RTECS No						CAS No:									
Urea/Ammonium phosphate solution	2179 730	0	0	0	R	3	2	(0)	(0)	(2)	(2)	(2)		NI	D	2	
		RTECS No						CAS No:									
Urea formaldehyde resin solution	1388 725	NI	NI	NI	NI	1	NI	1	1	NI	NI	NI	S	NI	NI	2	
		RTECS No						CAS No:									
Urea solution	1384 726	0	0	0	R	1	NI	0	0	(1)	1	(1)		NI	D	1	
		RTECS No			YR6250000			CAS No:							57-13-6		
Valeraldehyde (all isomers)	1390 731	1	NI	1	R	3	NI	0	0	0	2	2		NI	D	2	
		RTECS No			ES3450000			CAS No:							590-86-3		
Vegetable protein solution (hydrolysed)	1398 734	0	NI	0	NI	0	NI	(0)	(0)	(0)	(0)	(0)		NI	NI	0	
		RTECS No						CAS No:									
Vinyl acetate	1400 735	0	NI	0	R	2	NI	1	0	2	1	1	C	NI	ED	3	
		RTECS No			AK0875000			CAS No:							108-05-4		
Vinyl ethyl ether	1405 736	1	NI	1	NR	1	NI	0	0	0	1	1		NI	E	1	
		RTECS No			KO0710000			CAS No:							109-92-2		

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Vinylidene chloride	1406 738	2	1	1	NR	2	NI	2	0	(2)	2	2	M	NI	SD	3
		RTECS No			KV9275000			CAS No:			75-35-4					
Vinyl neodecanoate	1404 737	5	NI	5	NR	3	NI	0	0	(3)	3	3		NI	F	3
		RTECS No						CAS No:			45115-34-2					
Vinyltoluene	1409 739	3	3	3	NR	3	NI	0	0	2	2	1	NM	(T)	F	3
		RTECS No			WL5075000			CAS No:			25013-15-4					
Water	494 740	0	0	0	Inorg	0	0	0	0	0	0	0		NI	D	0
		RTECS No						CAS No:			7732-18-5					
Waxes	1122 741	0	NI	0	NR	0	NI	0	0	(0)	0	0		NI	Fp	2
		RTECS No			RV0350000			CAS No:			8002-74-2					
White spirit, low (15-20%) aromatic	1411 742	(4)	NI	(4)	(R)	3	NI	(0)	(0)	(2)	(1)	(2)	A	NI	F	3
		RTECS No						CAS No:								
Xylenes	1408 743	3	NI	3	NR	3	0	0	0	0	2	2		(T)	FE	2
		RTECS No			ZE2275000			CAS No:			1330-20-7					
Xylenes/ethylbenzene (10% or more) mixture	2269 2337	3	2	2	NR	3	1	(0)	(0)	(2)	(2)	(2)		(T)	FE	2
		RTECS No						CAS No:								
Xylenol	1422 744	2	NI	2	R	3	NI	1	2	(3)	3	3		(T)	Fp	3
		RTECS No			ZE5425000			CAS No:			1300-71-6					
Zinc alkaryl dithiophosphate (C7-C16)	1977 745	0	NI	0	NR	3	NI	0	0	(0)	(0)	(0)		NI	Fp	2
		RTECS No						CAS No:								
Zinc alkenyl carboxamide	2053 746	NI	0	0	NR	0	NI	0	0	(1)	1	(1)		NI	Fp	2
		RTECS No						CAS No:			85137-07-1					
Zinc alkyl dithiophosphate (C3-C14)	1428 747	5	NI	5	NR	3	NI	0	0	0	2	2		NI	S	2
		RTECS No						CAS No:								
Zinc bromide solutions	2227 2617	Inor	4	4	Inorg	3	NI	1	(2)	(3)	3B	3	S	NI	D	3
		RTECS No						CAS No:								

Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Zinc chloride	1425	Inor	4	4	Inorg	4	1	(1)	(1)	(3)	(3)	(3)		NI	D	3
	2869	RTECS No		ZH1400000				CAS No:								

**ANNEX 4 - Re-evaluation of the Products in the IBC Code with missing pollution
and/or safety data (MSC/Circ. 1128 - MEPC/Circ.423)**

GESAMP Hazard Profiles (some products have been re-evaluated since EHS 41 see paragraph 5.6 of report)

IBC Code Name	EHS	A1	A2	B1	B2	C1	C2	C3	D3	E2
Acetochlor	2047	2	NR	4	NI	1	0	(1)	S	S
Alkaryl polyethers (C9-C20)	1974	4	NR	3	NI	0	0	(3)		S
Alkenyl (C11+) amide	1858	3	(NR)	4	NI	0	(0)	(1)		Fp
Alkyl (C3-C4) benzenes	2206	(3)	R	4	NI	0	0	(2)		FE
Brake fluid base mix: Poly(2-8)alkylene (C2-C3) glycols/Polyalkylene (C2-C10) glycols monoalkyl (C1-C4) ethers and their borate esters	2358	(1)	(R)	(1)	(0)	0	0	0		D
Butene oligomer	386	0	NR	(4)	0	0	0	0		FE
Calcium long-chain alkaryl sulphonate (C11-C50)	1973	0	NR	0	NI	0	0	(1)	S	FD
Calcium nitrate/Magnesium nitrate/Potassium chloride solution	1734	0	Inorg	1	0	0	(0)	(1)		D
Calcium nitrate solutions (50% or less)	1803	0	Inorg	0	NI	0	(0)	(1)		D
Carbolic oil	437	(3)	(NR)	(3)	(1)	2	2	3	ATNCM	FED
Cashew nut shell oil (untreated)	443	0	R	0	NI	(0)	(0)	(2)	S	Fp
Chlorinated paraffins (C14-C17) (with 50% chlorine or more, and less than 1% C13 or shorter chains)	2112	4	NR	6	3	0	0	(2)	C	S
o-Chloronitrobenzene	467	2	NR	3	NI	2	2	2		S
Coal tar	499	4	NR	3	1	0	0	0	CMR	S
Coal tar naphtha solvent	500	3	NR	3	NI	0	0	(1)	C	FE
Coal tar pitch (molten)	491	(3)	NR	4	2	0	0	(1)	CM	S
Coconut oil fatty acid methyl ester	506	0	NI	0	NI	(0)	(0)	(0)		Fp
Creosote (coal tar)	524	(4)	NR	4	(2)	1	0	2	CM	S
Cresylic acid, sodium salt solution	1914	(2)	(R)	(3)	(0)	1	(1)	(3)	TCM	D
1,6-Dichlorohexane	593	3	NR	3	NI	0	(0)	(0)		S
Dichloromethane	594	2	NR	1	0	1	0	0	C	SD
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	599	1	R	3	NI	1	0	(3)		D
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution (70% or less)	600	1	R	3	NI	1	0	(3)		D
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	602	1	R	3	NI	1	0	(3)		D
Diethylene glycol phthalate	1438	2	NR	1	NI	0	0	(2)		S
Diglycidyl ether of bisphenol F	728	0	NR	3	NI	0	(0)	(2)	SR	S
Diisononyl adipate	690	0	R	0	0	0	0	(1)		Fp
Diisopropyl naphthalene	712	4	NR	(3)	NI	0	0	(1)		Fp
Dinonyl phthalate	689	0	R	0	O	0	0	(1)	R	Fp
Diphenylamine, reaction product with 2,2,4-Trimethylpentene	1500	1	NR	3	NI	0	0	(1)	S	Fp
Diphenylmethane diisocyanate	700	2	NR	0	0	0	0	4	S	S

IBC Code Name	EHS	A1	A2	B1	B2	C1	C2	C3	D3	E2
Ditridecyl adipate	2351	0	NR	0	NI	0	0	(2)	S	Fp
Ditridecyl phthalate	714	2	NR	0	(0)	0	0	(1)		Fp
Dodecylamine/Tetradecylamine mixture	721	5	R	4	NI	1	0	(3)		F
Dodecyl diphenyl ether disulphonate solution	723	5	NR	4	1	1	0	(3)		D
Ethylene glycol phenyl ether	775	1	R	1	0	1	0	(2)		SD
Ethylene-Vinyl acetate copolymer (emulsion)	779	1	NR	0	0	0	(0)	NI		S
Fluorosilicic acid (20-30%) in water solution	2240	Inorg	Inorg	NI	NI	(1)	(1)	4		D
Isopropylamine (70% or less) solution	2350	0	R	2	NI	2	2	1		DE
Latex, ammonia (1% or less), inhibited	889	0	R	(2)	NI	(0)	(0)	(0)		D
Latex: Carboxylated styrene-Butadiene copolymer; Styrene-Butadiene rubber	1274	0	NR	0	NI	0	0	(0)		D
Ligninsulphonic acid, sodium salt solution	34	0	(NR)	(0)	NI	0	(0)	(0)		D
Long-chain alkaryl sulphonic acid (C16-C60)	1966	0	(NR)	0	NI	0	0	(2)		Fp
Magnesium long-chain alkaryl sulphonate (C11-C50)	1967	0	NR	0	NI	0	0	(2)	S	Fp
2-Methyl-1,3-propanediol	2200	0	NR	0	0	0	0	(0)		D
Nitroethane, 1-Nitropropane (each 15% or more) mixture	2270	(1)	(NR)	(2)	NI	1	1	2		FED
o- or p-Nitrotoluenes	2241	2	NR	3	1	1	0	(2)	CMR	S
Octyl decyl adipate	1082	0	R	(0)	(0)	(0)	(0)	(1)		Fp
Oleylamine	1862	0	NR	4	NI	1	(1)	(3)		Fp
Palm kernel acid oil	1095	(4)	(R)	(4)	(1)	0	(0)	(2)		Fp
Palm oil fatty acid methyl ester	1097	0	R	0	NI	(0)	(0)	(0)		Fp
Phosphate esters, alkyl (C12-C14) amine	1854	2	NR	3	NI	0	(0)	(2)		FD
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	1152	1	R	1	0	0	0	0		D
Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether acetate	2254	1	NR	2	1	0	0	0		D
Polybutene	1154	0	(NR)	(0)	(0)	(0)	(0)	(0)		Fp
Polyether (molecular weight 2000+)	1975		NI	NI	NI	NI	NI	NI		NI
Polyethylene polyamines	1991	(5)	NR	3	0	0	(1)	(3)	S	Fp
Polyglycerin, sodium salt solution (containing less than 3% sodium hydroxide)	1874	0	R	0	NI	0	0	(3)		D
Polyolefin aminoester salts (mw 2000+)	2095	0	NR	1	NI	0	0	(1)		Fp
Poly(5+)propylene	1512	0	NR	(0)	NI	(0)	(0)	(0)		F
Potassium chloride solution (10% or more)	1513	0	Inorg	1	0	0	(0)	(1)		D
Pyrolysis gasoline	2271	(3)	(R)	(3)	(1)	1	0	(2)	TCM	FE
Sodium alkyl (C14-C17) sulphonates (60-65% solution)	334	2	R	3	1	0	0	(2)		D
Sodium petroleum sulphonate	1860	0	(NR)	2	NI	0	(0)	(2)	S	S
Sorbitol solution	1265	0	R	0	NI	0	(0)	(0)		D
Sulphurized polyolefinamide alkene (C28-C250) amine	1855	0	NR	0	NI	0	0	(0)		FD

IBC Code Name	EHS	A1	A2	B1	B2	C1	C2	C3	D3	E2
Tall oil (crude and distilled)	1285	0	(R)	2	NI	0	0	(0)	S	Fp
Tall oil fatty acid (resin acids less than 20%)	1287	0	R	0	NI	0	0	(1)		Fp
Tallow fatty acid	1289	0	R	0	NI	0	(0)	(0)		Fp
White spirit, low (15-20%) aromatic	1411	(4)	(R)	3	NI	(0)	(0)	(2)	A	F

ANNEX 5
INVENTORY OF VEGETABLE OILS AND THEIR DERIVATIVES

<p>Vegetable oils</p> <ol style="list-style-type: none"> 1. Cashew nut shell oil (untreated) 2. Castor oil (containing less than 10% free fatty acids) 3. Cocoa butter 4. Coconut oil (containing less than 5% free fatty acids) 5. Corn oil (containing less than 10% free fatty acids) 6. Cotton seed oil (containing less than 12% free fatty acids) 7. Fish oil (containing less than 10% free fatty acids) 8. Groundnut oil (containing less than 4% free fatty acids) 9. Illipe oil (containing less than 10% free fatty acids) 10. Lard (containing less than 10% free fatty acids) 11. Linseed oil (containing less than 4% free fatty acids) 12. Mango kernel oil (containing less than 10% free fatty acids) 13. Olive oil (containing less than 3.3% free fatty acids) 14. Palm oil (containing less than 15% free fatty acids) 15. Palm olein (containing less than 5% free fatty acids) 16. Palm kernel oil (containing less than 5% free fatty acids) 17. Palm kernel olein (containing less than 5 % free fatty acids) 18. Palm kernel stearin (containing less than 5% free fatty acids) 19. Palm stearin (containing less than 5% free fatty acids) 20. Rapeseed oil (high erucic acid; containing less than 4% free fatty acids) 21. Rapeseed oil (low erucic acid, containing less than 4% free fatty acids) 22. Rice bran oil (containing less than 15% free fatty acids) 23. Safflower oil (containing less than 5% free fatty acids) 24. Shea butter (containing less than 15% free fatty acids) 25. Soyabean oil (containing less than 4% free fatty acids) 26. Sunflower seed oil (containing less than 7% free fatty acids) 27. Tallow (containing less than 15% free fatty acids) 28. Tung oil (containing less than 2.5% free fatty acids) 29. Palm Mid Fraction 30. High FFA Palm Oil 31. Interesterified mixed vegetable oil <p>Genetically modified oils</p> <ol style="list-style-type: none"> 1. Genetically modified soyabean oil 2. Genetically modified Sunflower seed oil 3. Genetically modified Rapeseed oil <p>Acid oils</p> <ol style="list-style-type: none"> 1. Maize (corn) acid oil 2. <i>Mixed acid oil</i> 3. Palm acid oil 	<ol style="list-style-type: none"> 4. Palm kernel acid oil 5. Soyabean acid oil 6. Sunflower seed acid oil <p>Vegetable Oil Distillates</p> <ol style="list-style-type: none"> 1. Palm fatty acid distillate 2. Palm kernel fatty acid distillate <p>Fatty Acids (mixtures/groups)</p> <ol style="list-style-type: none"> 1. Coconut oil fatty acid 2. Fatty acids, linear, C12+ saturated with C12+ unsaturated 3. Fatty acids, linear, C8-C18, saturated with C18 unsaturated 4. Fatty acids, saturated, linear, C12+ (RENAME:C13+/C14+) 5. Fatty acids, unsaturated, linear, C16+ 6. Fatty acids (saturated, C13+) 7. Palm kernel oil fatty acid 8. Tallow fatty acid 9. Palm fatty acids C16+ 10. Palm kernel Fatty Acids, Saturated, C8+; Coconut fatty acid 11. Fatty acids saturated C8-C10 <p>Fatty Alcohols (mixtures/groups)</p> <ol style="list-style-type: none"> 1. Alcohols (C13+) 2. Alcohols (C₈-C₁₁), primary, linear and essentially linear 3. Alcohols (C₁₂-C₁₃), primary, linear and essentially linear 4. Alcohols (C₁₄-C₁₈), primary, linear and essentially linear 5. Fatty alcohols, linear C12+ 6. Fatty alcohols, linear C16+ 7. C10-C12-C14 Fatty alcohols 8. Fatty alcohol C12+ <p>Fatty Acid Methyl Esters</p> <ol style="list-style-type: none"> 1. Palm oil fatty acid methyl ester 2. Coconut oil fatty acid methyl ester 3. Rape seed oil fatty acid methyl esters 4. Palm oil methyl ester C16-C18 5. Palm kernel oil methyl esters C12-C18 6. Fatty acid methyl esters <p>Fatty nitriles</p> <ol style="list-style-type: none"> 1. Oleylamine
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