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PPR.1/Circ.8
1 June 2020

HAZARD EVALUATION OF SUBSTANCES TRANSPORTED BY SHIPS

Report of the fifty-seventh session of the GESAMP Working Group on the Evaluation of the Hazards of Harmful Substances Carried by Ships

The report of the fifty-seventh session of the GESAMP Working Group on the Evaluation of the Hazards of Harmful Substances Carried by Ships (GESAMP/EHS Working Group), held from 4 to 8 May 2020, is attached.

Any comments or questions should be addressed to:

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WORKING GROUP ON THE EVALUATION
OF THE HAZARDS OF HARMFUL
SUBSTANCES CARRIED BY SHIP
57th session
Agenda item 9

EHS 57/9
8 May 2020
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REPORT OF THE FIFTY-SEVENTH SESSION

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1 INTRODUCTION

1.1 The fifty-seventh session of the GESAMP Working Group on the Evaluation of the Hazards of Harmful Substances Carried by Ships (GESAMP/EHS Working Group) was held by correspondence and video conferences due to the COVID-19 restrictions, from 1 April to 8 May 2020, and was chaired by Mr. Richard Luit. The Group welcomed Dr. Matthias Grote as a new member and Dr. Akiko Masuda as an observer. The list of experts who attended the meeting is set out in annex 1.

1.2 Having reviewed the agenda and provisional timetable, the Group adopted both, without amendment.

2 OUTCOME OF OTHER BODIES

Outcome of IMO bodies

2.1 The Group noted that the following meetings of relevance had taken place since the fifty-sixth session of the GESAMP/EHS Working Group:

- .1 the twenty-fifth intersessional meeting of the Working Group on the Evaluation of Safety and Pollution Hazards of Chemicals (ESPH 25), which took place from 14 to 18 October 2019 (PPR 7/3); and
- .2 the Working Group on the Evaluation of Safety and Pollution Hazards (ESPH), which met during the sixth session of the PPR Sub-Committee from 17 to 19 February 2020 (PPR 7/WP.3).

2.2 The Group noted the information presented by the Secretariat on the outcome of the above-mentioned meetings on matters of relevance to the work of the GESAMP/EHS Working Group (see annex 2), and especially that products in Pollution Category Y that are persistent floaters with a viscosity equal to or greater than 50 mPas at 20°C and/or with a melting point equal to or greater than 0°C would be subject to a prewash on and after 1 January 2021.

2.3 In this respect, the Group noted that PPR 7 had invited GESAMP/EHS to provide advice for a recommended way forward when assessing mixtures against the above criteria, and advise whether the overall mixture should be assessed against the criteria, noting substances might separate when discharged to the sea, or whether mixtures should be assessed on a component level by applying a cut-off limit for the concentration of individual components that meet the criteria for the assignment of the new special requirement 16.2.7. (PPR 7/WP.3, paragraph 3.13 to 3.17).

2.4 The Group agreed that since the focus of this session should be on the assessment of new substances, the request by PPR 7 would be considered at GESAMP/EHS 58 in London, as this matter required an in-depth discussion which was not possible by correspondence.

3 EVALUATION OF NEW SUBSTANCES

3.1 The Group recalled that when submitting new substances for evaluation by the GESAMP/EHS Working Group, a full set of data, addressing all the relevant information requirements set out in the GESAMP/EHS Product Data Reporting Form, is required. The Group further noted that insufficient data, or a lack of adequate supporting arguments, where estimates had been used, would result in no rating being assigned for the hazard concerned or, as a worst case, no full hazard profile being issued for the chemical under review. In addition, the Group emphasized that requests for evaluations of mixtures, for which the assessment would be based on data for individual components of the mixture, should be accompanied by detailed and realistic compositional information (i.e. percentages, ratios or concentrations of the components).

3.2 Whenever a request is made for the assessment of a mixture the manufacturer should make it clear if the data presented for the mixture to be assessed is based upon the mixture itself, similarity based upon bridging principles or component-based additivity.

3.3 The Group considered the following new substances, which had been submitted for evaluation to this session:

.1	Sodium dodecylpoly(oxyethylene) sulfate solution	EHS 2531
.2	Sorbitan Sesquioleate	EHS 2532
.3	PEG Sorbitol Hexaooleate	EHS 2533
.4	Acrylamide, polymer with sodium AMPS, tetraethylene glycol diacrylate, and methylene-bisacrylamide	EHS 2534
.5	Acrylamide - Sodium AMPS Copolymer (70:30 ACAM:AMPS)	EHS 2535
.6	Acrylamide - Sodium AMPS Copolymer (68:32 ACAM:AMPS)	EHS 2536
.7	2,4-D Choline Salt	EHS 2523
.8	Concentrated filtrate of the neutralized reaction product of 5-[2-(methylthio)alkyl]imidazolidine-2,4-dione and potassium carbonate	EHS 2524
.9	Calcium Chloride Brine	EHS 2519
.10	Choline Hydroxide Solution	EHS 2525
.11	Isoalkanes, C16-C18	EHS 2526
.12	Sodium Chloride Brine	EHS 2521
.13	Polyalkene sulfonic acid (C16-C18), sodium salt	EHS 2527
.14	Sorbitol, propoxylated	EHS 2529
.15	Tricyanohexane	EHS 2530
.16	SCALETREAT TP 8441	

3.4 The Group, in assessing the submitted products, made observations and reached conclusions, as set out in the ensuing paragraphs. The resultant hazard profiles assigned by the Working Group for inclusion in the GESAMP Composite List are set out in annex 3.

EHS 2531 Sodium dodecylpoly(oxyethylene) sulphate solution

Submitted as: Sodium dodecylpoly(oxyethylene) sulfate solution

3.5 Having considered the submission and the data provided, the Group confirmed the name of the substance as submitted and assigned a GESAMP Hazard Profile accordingly.

<i>Rating</i>	A1a= (3)	A1b= NI	A1= (3)	A2= R	B1= 3	B2= NI
	C1= (0)	C2= (0)	C3a= (3)	C3b= NI	C3= (3)	D1= (2)
	D2= (3)	D3=blank	E1= 1	E2= D	E3= 3	

EHS 2532 Sorbitan sesquioleate

Submitted as: Sorbitan Sesquioleate

3.6 In considering the submission and the data provided, the Group noted that whilst a calculated log P_{ow} value had been calculated indicating a rating of "4" for bioaccumulation in column A1, it determined that since the molecular weight (MW) of the substance exceeded 1000 (MW 1212), the molecules are generally too large to pass through cell

membranes and there was no potential for it to bioaccumulate according to the criteria in GESAMP Reports and Studies No.102.

3.7 Consequently, the Group confirmed the name of the substance as submitted and assigned a GESAMP Hazard Profile accordingly.

<i>Rating</i>	A1a=0 C1= 0 D2= 0	A1b=NI C2= NI D3=blank	A1= 0 C3a= (2) E1= 1	A2= NR C3b= NI E2= Fp	B1= 0 C3= (2) E3= 2	B2= 1 D1= 1
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EHS 2533 Polyethylene glycol sorbitol hexaoleate

Submitted as: PEG Sorbitol Hexaoleate

3.8 Having considered the submission and the data provided, the Group agreed that the acronym PEG should be expanded. Consequently, the Group agreed to "Polyethylene glycol sorbitol hexaoleate" as the name for the entry in the Composite List and assigned a GESAMP Hazard Profile accordingly.

<i>Rating</i>	A1a=0 C1= (0) D2= (0)	A1b=NI C2= (0) D3=blank	A1= 0 C3a= (0) E1= 1	A2= R C3b= NI E2= Fp	B1= 2 C3= (0) E3= 2	B2= NI D1= (0)
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EHS 2534 Acrylamide, polymer with sodium 2-acrylamido-2-methyl-1-propanesulphonic acid (AMPS), tetraethylene glycol diacrylate, and methylene-bisacrylamide

Submitted as: Acrylamide, polymer with sodium AMPS, tetraethylene glycol diacrylate, and methylene-bisacrylamide

3.9 Having considered the submission and the data provided, the Group agreed that the acronym AMPS should be expanded. Consequently, the Group agreed to "Acrylamide, polymer with sodium 2-acrylamido-2-methyl-1-propanesulphonic acid (AMPS), tetraethylene glycol diacrylate, and methylene-bisacrylamide" as the name for the entry in the Composite List and assigned a GESAMP Hazard Profile accordingly.

<i>Rating</i>	A1a= 0 C1= 0 D2= 0	A1b= NI C2= 0 D3=blank	A1= 0 C3a= (0) E1= 2	A2= NR C3b= NI E2= Fp	B1= 1 C3= (0) E3= 2	B2= 0 D1= 0
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EHS 2535 Acrylamide (ACAM) - Sodium 2-acrylamido-2-methyl-1-propanesulphonic acid (AMPS) Copolymer (70:30 ACAM:AMPS)

Submitted as: Acrylamide - Sodium AMPS Copolymer (70:30 ACAM:AMPS)

3.10 Having considered the submission and the data provided, the Group agreed that the abbreviation "ACAM" should appear after "Acrylamide" in the name of the entry. Consequently, the Group agreed to "Acrylamide (ACAM) - Sodium 2-acrylamido-2-methyl-1-propanesulphonic acid (AMPS) Copolymer (70:30 ACAM:AMPS)" as the name for the entry in the Composite List and assigned a GESAMP Hazard Profile accordingly.

<i>Rating</i>	A1a= 0 C1= (0) D2= (0)	A1b= NI C2= (0) D3=blank	A1= 0 C3a= (0) E1= 2	A2= NR C3b= NI E2= Fp	B1= 0 C3= (0) E3= 2	B2= 0 D1= (0)
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EHS 2536 Acrylamide (ACAM) - Sodium 2-acrylamido-2-methyl-1-propanesulphonic acid (AMPS) Copolymer (68:32 ACAM:AMPS)
 Submitted as: Acrylamide - Sodium AMPS Copolymer (68:32 ACAM:AMPS)

3.11 Having considered the submission and the data provided, the Group agreed that the abbreviation "ACAM" should appear after "Acrylamide" in the name of the entry. Consequently, the Group agreed to "Acrylamide (ACAM) - Sodium 2-acrylamido-2-methyl-1-propanesulphonic acid (AMPS) Copolymer (68:32 ACAM:AMPS)" as the name for the entry in the Composite List and assigned a GESAMP Hazard Profile accordingly.

<i>Rating</i>	A1a= 0	A1b= NI	A1= 0	A2= NR	B1= 1	B2= 0
	C1= (0)	C2= (0)	C3a= (0)	C3b= NI	C3= (0)	D1= (0)
	D2= (0)	D3=blank	E1= 2	E2= Fp	E3= 2	

EHS 2523 2,4-dichlorophenoxyacetic acid, choline salt
 Submitted as: 2,4-D Choline Salt

3.12 Having considered the submission and the data provided, the Group agreed that "2,4-dichlorophenoxyacetic acid, choline salt" would be a more appropriate name for entry into the Composite List and assigned a GESAMP Hazard Profile accordingly.

<i>Rating</i>	A1a=2	A1b=2	A1= 2	A2= NR	B1= 1	B2= 1
	C1= 1	C2= 0	C3a= 0	C3b= NI	C3= 0	D1= 1
	D2= 2	D3=blank	E1= 0	E2= D	E3= 2	

EHS 2524 Concentrated filtrate of the neutralized reaction product of 5-[2-(methylthio)alkyl]imidazolidine-2,4-dione and potassium carbonate
 Submitted as: Concentrated filtrate of the neutralized reaction product of 5-[2-(methylthio)alkyl]imidazolidine-2,4-dione and potassium carbonate

3.13 Having considered the submission and the data provided, the Group confirmed the name of the substance as submitted and assigned a GESAMP Hazard Profile accordingly.

<i>Rating</i>	A1a=0	A1b=NI	A1= 0	A2= R	B1= 1	B2= 0
	C1= 0	C2= NI	C3a= 0	C3b= NI	C3= 0	D1= 0
	D2= 0	D3=blank	E1= 0	E2= D	E3= 0	

EHS 2519 Calcium chloride solution (less than 35%)
 Submitted as: Calcium chloride brine

3.14 In considering the submission and the data provided, the Group noted that the product was severely irritating to the eye (D2=3). According to GESAMP Reports and Studies No. 102, a rating of 3 in D2 triggers an E3 rating (Interference with the use of coastal amenities) of "3", which corresponds to a relative interference of "highly objectionable". The Group agreed that such a high E2 rating was not justified, since calcium chloride is present in high concentrations in seawater and that there should be consistent ratings across similar brines. Consequently, the Group assigned a rating of "0" for E3.

3.15 The Group also agreed that "Calcium chloride solution (less than 35%)" would be a more appropriate name for entry into the Composite List and assigned a GESAMP Hazard Profile accordingly.

<i>Rating</i>	A1a=Inorg C1= 1 D2= 3	A1b=0 C2= 0 D3=blank	A1= 0 C3a=(3) E1= 0	A2= Inorg C3b= NI E2= D	B1= 0 C3= (3) E3= 0	B2= 0 D1= 1
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EHS 2525 Choline hydroxide solution

Submitted as: Choline Hydroxide Solution

3.16 Having considered the submission and the data provided, the Group confirmed the name of the substance as submitted and assigned a GESAMP hazard profile accordingly.

<i>Rating</i>	A1a=0 C1= (0) D2= 3	A1b=(0) C2= NI D3=blank	A1= 0 C3a= (3) E1= 0	A2= (R) C3b= NI E2= D	B1= (1) C3= (3) E3= 3	B2= 0 D1= 3
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EHS 2526 Isoalkanes (C16-C18)

Submitted as: Isoalkanes, C16-C18

3.17 In considering the submission, the Group noted that the product could fall under the existing entry for Iso-and cyclo-alkanes (C12+) (EHS 2204). However, as for certain hazards the conclusions based on data submitted were different, the Group agreed to include the product as a separate entry. The Group also noted that the product had a log $P_{ow} > 8$ which would give an A1 rating of "0" indicating no potential for bioaccumulate whilst EHS 2204 had an A1 rating of "(5)" indicating an estimated very high potential to bioaccumulate. The Group concluded that the difference in these ratings might be due to the fact that shorter chain length molecules have a higher potential to bioaccumulate.

3.18 Having considered the submission and the data provided, the Group agreed to "Isoalkanes (C16-C18)" as the name for the entry in the Composite List and assigned a GESAMP hazard profile accordingly.

<i>Rating</i>	A1a= 0 C1= (0) D2= (0)	A1b= NI C2= (0) D3= A	A1= 0 C3a= (0) E1= 1	A2= R C3b= NI E2= F	B1= 1 C3= (0) E3= 1	B2= NI D1= (0)
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EHS 2521 Sodium chloride solution

Submitted as: Sodium chloride brine

3.19 In considering the submission and the data provided, the Group noted that the product was irritating to the eye (D2=2). According to GESAMP Reports and Studies No. 102, a rating of 2 in D2 triggers an E3 rating (Interference with the use of coastal amenities) of "2", which corresponds to a relative interference of "moderately objectionable". The Group agreed that such a high E3 rating was not justified since sodium chloride is a present in high concentrations in seawater and that there should be consistent ratings across similar brines. Consequently, the Group assigned a rating of "0" for E3.

3.20 The Group also agreed that "Sodium chloride solution" would be a more appropriate name for entry into the Composite List and assigned a GESAMP Hazard Profile accordingly.

<i>Rating</i>	A1a=Inorg C1= 0 D2=2	A1b=0 C2= 0 D3=blank	A1=0 C3a= 0 E1= 0	A2= Inorg C3b= NI E2= D	B1= 0 C3= 0 E3= 0	B2= 0 D1= 1
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EHS 2527 Polyalkene sulphonic acid (C16-C18), sodium salt

Submitted as: Polyalkene sulfonic acid (C16-C18), sodium salt

3.21 Having considered the submission and the data provided, the Group confirmed the name of the substance as submitted and assigned a GESAMP hazard profile accordingly.

<i>Rating</i>	A1a=(3)	A1b=(2)	A1= (3)	A2= (R)	B1= (4)	B2= NI
C1= (1)	C2= (0)	C3a= (2)	C3b= NI	C3= (2)	D1= (2)	
D2= (2)	D3=blank	E1= 0	E2= D	E3= 2		

EHS 2529 Sorbitol, propoxylated

Submitted as: Sorbitol, propoxylated

3.22 Having considered the submission and the data provided, the Group confirmed the name of the substance as submitted and assigned a GESAMP hazard profile accordingly.

<i>Rating</i>	A1a=1	A1b=NI	A1= 1	A2= NR	B1= 1	B2= 0
C1= 0	C2= 0	C3a= (0)	C3b=NI	C3= (0)	D1= 0	
D2= 0	D3=blank	E1= 1	E2= D	E3= 0		

EHS 2530 Tricyanoohexane

Submitted as: Tricyanoohexane

3.23 Having considered the submission and the data provided, the Group confirmed the name of the substance as submitted and assigned a GESAMP hazard profile accordingly.

<i>Rating</i>	A1a=0	A1b=NI	A1= 0	A2= NR	B1= 1	B2= NI
C1= 1	C2= 0	C3a= (1)	C3b=NI	C3= (1)	D1= 0	
D2= 0	D3=blank	E1= 1	E2= SD	E3= 1		

SCALETREAT TP 8441

3.24 The Group considered a submission for the trade-named mixture SCALETREAT TP 8441. The product could not be successfully evaluated due to the absence of data for one of the main components and/or insufficient justification for read across (see section 5).

3.25 The Group reiterated that summaries with full reference details or complete study reports should always be provided. Further guidance on presenting data is given in [GESAMP Reports and Studies No. 102](#).

Refinement of column C3 (acute inhalation toxicity) and reassignment of column E1 from "Tainting of sea food" to "Flammability"

3.26 In accordance with GESAMP Reports and Studies No. 102, the Group assigned the refined ratings for acute inhalation toxicity by splitting them into C3a (vapour/mist or mist only) and C3b (vapour only and assigned flammability). The Group also assigned flammability ratings in column E1.

3.27 In this context, the Group was informed that the Secretariat had not been able to modify the GISIS module in time to accommodate the split C3 column and the reassignment E1 column in the Composite List at the conclusion of this session. Nonetheless, the Group agreed to record the ratings in the report in order to have them included in a future version of the Composite List once the schema of the GISIS module database had been modified.

4 RE-EVALUATION OF SUBSTANCES AND CONSIDERATION OF ISSUES RELATED TO EVALUATIONS

4.1 The Group recalled that, as part of its work, it routinely considered requests for the re-assessment of products, based on the submission of new data or new scientific insights into the hazards of substances that may result in a change of a hazard profile.

4.2 The Group also recalled its ongoing review and update of the existing GESAMP/EHS files for completeness and consistency and the need for communication of any amendments relating to such matters, bringing these to the attention of IMO (i.e. the ESPH Working Group of the PPR Sub-Committee).

4.3 Having considered new information that had been submitted to this session relating to Potassium chloride (less than 26%) (EHS 2345) and Sodium bromide solution (less than 50%) (EHS 2387), the Group provisionally re-evaluated the corresponding hazard profiles. However, as the existing data files for the above-mentioned EHS entries were inaccessible, the Group agreed to keep the provisional re-evaluation in abeyance until the next session and only made some minor editorial modifications to the entries as set out below.

EHS 2345 Potassium chloride solution (less than 26%):

Current name in the Composite List: Potassium chloride brine (less than 26%)

4.4 The Group agreed to amend the A1a rating from "0" to "Inorg" in accordance with the guidance provided in GESAMP Reports and Studies No. 102, and to change the name of the product in the Composite List to "Potassium chloride solution (less than 26%)" in order to have consistent naming of various inorganic salt solutions.

Amended rating A1a=Inorg

EHS 2387 Sodium bromide solution (less than 50%)

4.5 The Group agreed to amend the A1a rating from "0" to "Inorg" in accordance with the guidance provided in GESAMP Reports and Studies No. 102.

Amended rating A1a=Inorg

5 RATING BY READ ACROSS AND CLASSIFICATION ISSUES

5.1 In some cases, where data on the substance or mixture itself were not available, submissions were rejected due to the lack of adequate rationale to read across to other compounds referenced in the dossier. No or limited attempts had been made to respond to the general requirements in the existing guidance included in Chapter 3.9. ("Rating by read-across") of GESAMP Reports and Studies No. 102:

"In such cases, convincing evidence of the structural similarity, physico-chemical properties, common molecular functional groups, metabolites, and/or mechanism of action or other such characteristics of the analogous substance(s) should be provided to the EHS Working Group of GESAMP. Where manufacturers choose to submit data on a closely analogous substance, then the exact relationship and complete supporting information should be provided."

"In the case of a substance belonging to a homologous series, manufacturers are encouraged to provide a comprehensive data set for the selected homologues and to clearly justify the arguments for read across of the selected hazard endpoints to the target substance."

5.2 The Group also noted the availability of guidance on read across developed by other regulatory and international bodies and agreed to consider whether more explicit guidance might be helpful. It was agreed to consider this further at a future session.

5.3 In some of the submissions considered by the Group, the data submitted was for the solid form of the substance as the substance would not be transported in pure form but would be used as a component in a mixture. In this context, the Group discussed the possibility of providing guidance to manufacturers on how to present data to the Group in such cases, noting that the main purpose of the Composite List is to facilitate the transport of liquid bulk chemicals. The Group agreed to consider this issue further in a future meeting.

6 CONSOLIDATION OF EXISTING DATA FILES

6.1 The Group recalled the ongoing review of the GESAMP/EHS files was a regular agenda item.

6.2 Not having had sufficient time to review these files during the session in light of other higher priority work on its agenda, the Group agreed to defer consideration of this item to its next session.

7 ANY OTHER BUSINESS

7.1 Based on the volume of information contained in submissions in recent sessions, the Group suggested that the deadline for submissions to future GESAMP/EHS meetings should be set sufficiently in advance of the meeting so as to allow the members of the Group to commence preparatory work at least three weeks prior to the session.

7.2 Having recalled that at previous sessions the Group had agreed for the submission deadline to be set sufficiently in advance. The Group confirmed that this should continue for future sessions.

Draft provisional agenda and date of the next session

7.3 The Group agreed to the draft provisional agenda for its next session, set out in annex 5, and that its next meeting had been tentatively scheduled to take place from 10 to 14 May 2021, at IMO headquarters in London. Subject to the aforementioned dates being confirmed, the deadline for manufacturers to submit information to GESAMP/EHS 58 would be 5 March 2021.

Expression of appreciation

7.4 The Group recalled that Dr. Thomas Höfer (Chair of the Group from GESAMP/EHS 51 to GESAMP/EHS 56), had notified the GESAMP Office and the Group of his decision to step down as Chair and to retire from the Group. The Group expressed its appreciation for Dr. Höfer's hard work over a period of 27 years as a member of the Group and recognized his significant contribution and achievements during this period that culminated with the publication of GESAMP Reports and Studies No. 102 during his time as Chair.

7.5 The Group was also informed that after many years of service this would be the last session of Dr. Hotaka Saito and Dr. Patricio H. Rodríguez. The Group expressed its appreciation for the invaluable contribution of Dr. Saito and Dr. Rodríguez to the work of the GESAMP/EHS Working Group and recognized their competence and understanding of the complex subject matter.

8 CONSIDERATION AND ADOPTION OF THE REPORT

8.1 The Group adopted its report, noting that it would be circulated as PPR.1/Circ.8.

ANNEX 1

**LIST OF MEMBERS ATTENDING THE FIFTY-SEVENTH SESSION
OF THE GESAMP/EHS WORKING GROUP**

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ANNEX 2

OUTCOME OF ESPH 25 AND THE ESPH WORKING GROUP AT PPR 7

1 OUTCOME OF ESPH 25

Evaluation of chemicals

1.1 ESPH 25 considered a number of products as part of its routine assessment and assignment of carriage requirements, in accordance with the IBC Code. Decisions that were based on the outcome of GESAMP/EHS 56 or that are relevant to GESAMP/EHS 57 are summarized below.

Complex mixtures submitted for assessment as a MARPOL Annex II product

1.2 The Group agreed to the deletion of the List 3 entries for SOLVESSO 150, SOLVESSO 150 ND, SOLVESSO 200 and SOLVESSO 200 ND as they met the requirements for complex petrochemical mixtures as described in the *Revised guidelines for the provisional assessment of liquid substances transported in bulk* (MEPC.1/Circ.512/Rev.1).

1.3 In this respect, the Group also agreed to retain the GESAMP Hazard Profiles as listed under the EHS entries 2423, 2424, 2425 and 2426 as they could be used as components in a mixture. Consequently, the Group invited GESAMP/EHS to retain the aforementioned GESAMP Hazard Profiles in the GESAMP/EHS Composite List.

Energy-rich fuels

1.4 The Group agreed to reintroduce the GESAMP Hazard Profiles corresponding to the energy rich fuels for the following products that were previously listed in annex 11 (*Biofuels recognized under the 2011 Guidelines for the carriage of blends of petroleum oil and biofuels*) of MEPC.2/Circ.23:

- .1 Alkanes (C4-C12) linear, branched and cyclic (containing benzene up to 1%) (previously EHS 2510);
- .2 Alkanes (C5-C7), linear and branched (previously EHS 2464);
- .3 Alkanes (C9-C24) linear, branched and cyclic (previously EHS 2511);
- .4 Alkanes (C10-C17), linear and branched (previously EHS 2463); and
- .5 Alkanes (C10-C26), linear and branched (previously EHS 2392).

2 OUTCOME OF THE ESPH WORKING GROUP AT PPR 7

Evaluation of chemicals

2.1 The Group evaluated and assigned minimum carriage requirements for two List 3 products (PPR 7/WP.3, section 3 and annexes 1).

Evaluation of trade-name mixtures according to the new MARPOL Annex II discharge requirements

2.2 The Group recalled that from 1 January 2021, the new MARPOL Annex II discharge requirement will apply to cargo residues and tank washings of substances assigned to category Y that are persistent floaters with a viscosity equal to or greater than 50 mPa·s at 20°C and/or with a melting point equal to or greater than 0°C (resolution MEPC.315(74)). The products for which the new discharge requirements apply are assigned special requirement 16.2.7 in column "o" of chapter 17 to the IBC Code.

2.3 In this respect, the Group discussed how to assess trade-named mixtures against these criteria, noting that it might be challenging to apply the criteria for a persistent floater as contained in the new regulation 1.23 of MARPOL Annex II to mixtures.

2.4 The Group further noted that, based upon the information provided in the PPR Data Reporting Form, special requirement 16.2.7 can be assigned to a mixture. However, it would be beneficial to have some advice on whether the assessments should be performed on a component level using a cut-off value for individual component(s) meeting the criteria, or if the assessment should be done using the data for the overall mixture.

2.5 As a consequence, the Group agreed to request GESAMP/EHS for a recommended way forward when assessing mixtures against the above criteria, and advise whether the overall mixture should be assessed against the criteria, noting substances might separate when discharged to the sea, or whether mixtures should be assessed on a component level by applying a cut-off limit for the concentration of individual components that meet the criteria for the assignment of special requirement 16.2.7.

Draft amendments to the decisions with regard to the categorization and classification of products (PPR.1/Circ.7)

2.6 The Group recalled that ESPH 25 had prepared an updated draft of decisions with regard to the classification of products, as set out in annex 4 to document PPR 7/3.

2.7 The Group further developed the draft circular and agreed that, when a MARPOL Annex I component was used in a mixture calculation, and forming more than 1% by weight of the mixture, the resulting Pollution Category of the mixture should always come out as a Pollution Category X and that a component factor of 100 should be used for the assignment of ship type. The MARPOL Annex I component(s) should also be indicated in the contains name as follows: [contains oil*].

* See list of oils in Appendix I to MARPOL Annex I, excluding "Mineral oil" as a component in Lube Oil Additive mixtures.

ANNEX 3

GESAMP HAZARD PROFILES FOR NEW SUBSTANCES SUBMITTED FOR EVALUATION TO GESAMP/EHS 57

1 This annex sets out the GESAMP Hazard Profiles (GHP) assigned for the products submitted to the current session. The respective substances and their GHPs are summarized in the subsequent table.

ANNEX 3 - GESAMP HAZARD PROFILES FOR NEW SUBSTANCES SUBMITTED FOR EVALUATION TO GESAMP/EHS 57

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EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Acrylamide (ACAM) - Sodium 2-acrylamido-2-methyl-1-propanesulphonic acid (AMPS) Copolymer (68:32) ACAM:AMPS)	2536	0	NI	0	NR	1	0	(0)	(0)	(0)	(0)	(0)		Fp	2	
Acrylamide (ACAM) - Sodium 2-acrylamido-2-methyl-1-propanesulphonic acid (AMPS) Copolymer (68:32) ACAM:AMPS)	4245													CAS No		
Acrylamide (ACAM) - Sodium 2-acrylamido-2-methyl-1-propanesulphonic acid (AMPS) Copolymer (70:30) ACAM:AMPS)	2535	0	NI	0	NR	0	0	(0)	(0)	(0)	(0)	(0)		Fp	2	
Acrylamide (ACAM) - Sodium 2-acrylamido-2-methyl-1-propanesulphonic acid (AMPS) Copolymer (70:30) ACAM:AMPS)	4244													CAS No		
Acrylamide, polymer with sodium 2-acrylamido-2-methyl-1-propanesulphonic acid (AMPS), tetraethylene glycol diacrylate, and methylene-bisacrylamide	2534	0	NI	0	NR	1	0	0	0	(0)	0	0		Fp	2	
Acrylamide, polymer with sodium 2-acrylamido-2-methyl-1-propanesulphonic acid (AMPS), tetraethylene glycol diacrylate, and methylene-bisacrylamide	4243													CAS No		
Calcium chloride solution (less than 35%)	2519	Inorg	0	0	Inorg	0	0	1	0	(3)	1	3		D	0	
Calcium chloride solution (less than 35%)	4227													CAS No		
Choline hydroxide solution	2525	0	(0)	0	R	1	0	(0)	NI	(3)	3	3		D	3	
Choline hydroxide solution	4234													CAS No		
Concentrated filtrate of the neutralized reaction product of 5-[2-(methylthio)alkyl]imidazolidine-2,4-dione and potassium carbonate	2524	0	NI	0	R	1	0	0	NI	0	0	0		D	0	
Concentrated filtrate of the neutralized reaction product of 5-[2-(methylthio)alkyl]imidazolidine-2,4-dione and potassium carbonate	4233													CAS No		
2,4-dichlorophenoxyacetic acid, choline salt	2523	2	2	2	NR	1	1	1	0	0	1	2		D	2	
2,4-dichlorophenoxyacetic acid, choline salt	4232													CAS No		
Isoalkanes (C16-C18)	2526	0	NI	0	R	1	NI	(0)	(0)	(0)	(0)	(0)	A	F	1	
Isoalkanes (C16-C18)	4235													CAS No		
Polyalkene sulphonic acid (C16-C18), sodium salt	2527	(3)	(2)	(3)	(R)	(4)	NI	(1)	(0)	(2)	(2)	(2)		D	2	
Polyalkene sulphonic acid (C16-C18), sodium salt	4236													CAS No		
Polyethylene glycol sorbitol hexaoleate	2533	0	NI	0	R	2	NI	(0)	(0)	(0)	(0)	(0)		Fp	2	
Polyethylene glycol sorbitol hexaoleate	4242													CAS No		
Sodium chloride solution	2521	Inorg	0	0	Inorg	0	0	0	0	0	1	2		D	0	
Sodium chloride solution	4229													CAS No		
Sodium dodecylpoly(oxyethylene) sulphate solution	2531	(3)	NI	(3)	R	3	NI	(0)	(0)	(3)	(2)	(3)		D	3	
Sodium dodecylpoly(oxyethylene) sulphate solution	4240													CAS No		
Sorbitan sesquioleate	2532	0	NI	0	NR	0	1	0	NI	(2)	1	0		Fp	2	
Sorbitan sesquioleate	4241													CAS No		

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EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Sorbitol, propoxylated	2529	1	NI	1	NR	1	0	0	0	(0)	0	0		D	0	
Sorbitol, propoxylated	4238												CAS No			
Tricyanohexane	2530	0	NI	0	NR	1	NI	1	0	(1)	0	0		SD	1	
Tricyanohexane	4239												CAS No			

ANNEX 4

UPDATED GESAMP/EHS COMPOSITE LIST

Notes:

- 1 In the Composite List, both EHS and TRN (shipping) names are shown for each product. The alphabetical listing of the products is based on the EHS names.
- 2 Any changes introduced in the table since the last issue of the Composite List are highlighted.
- 3 Entries with an EHS name marked with a single asterisk (*) represent cleaning additive components that have only a partial hazard profile assigned. These profiles **cannot be used** for mixture calculations in relation to bulk shipments.
- 4 Entries with an EHS name marked with a double asterisk (**) represent mixture components for which only a partial hazard profile has been assigned. These profiles **may be used** for mixture calculations in relation to bulk shipments.
- 5 Entries with an EHS name marked with a hash mark (#) reflect that for the **C3 rating**, the product, as a vapour rather than an aerosol or mist, could be considered to have a lower inhalation hazard for the purposes of risk management.
- 6 Entries with an EHS name marked with an exclamation mark (!) refer to a mixture that contains components with substantially different physical properties and therefore different physical behaviours when released in the marine environment. The **E2 rating** assigned reflects the most severe impact from an environmental standpoint. For example, a mixture assigned a rating of Fp may also have a major component(s) with sinker characteristics (S) or dissolver characteristics (D).

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GESAMP Hazard Profiles

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EHS Name TRN 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		D	3
Acetic acid		64								CAS No	64-19-7					
Acetic anhydride		12	0	0	0	R	1	NI	1	0	2	3	3	A	D	3
Acetic anhydride		65								CAS No	108-24-7					
Acetochlor (ISO)		2047	3	2	2	NR	4	NI	1	0	(1)	0	0		S	2
Acetochlor		66								CAS No	34256-82-1					
Acetone		15	0	0	0	R	0	0	0	0	0	1	2	NT	DE	2
Acetone		67								CAS No	67-64-1					
Acetone cyanohydrin		14	0	0	0	R	4	NI	3	4	3	(3)	(3)		D	3
Acetone cyanohydrin		68								CAS No	75-86-5					
Acetonitrile		16	0	0	0	R	1	NI	1	1	2	1	2		D	2
Acetonitrile		69								CAS No	75-05-8					
Acetonitrile (Low purity grade)		2333	0	NI	0	R	3	NI	1	1	2	1	2		D	2
Acetonitrile (Low purity grade)		2876								CAS No						
Acid mixtures (nitrating acid)		289	Inorg	NI	0	Inorg	(2)	NI	3	3	4	3C	3		D	3
Nitrating acid (mixture of sulphuric and nitric acids)		497								CAS No						
Acrylamide		23	0	0	0	R	2	0	2	2	(2)	1	2	CMNSs	D	3
Acrylamide solution (50% or less)		70								CAS No	79-06-1					
Acrylamide (ACAM) - Sodium 2-acrylamido-2-methyl-1-propanesulphonic acid (AMPS) Copolymer (68:32 ACAM:AMPS)	2536	0	NI	0	NR	1	0	(0)	(0)	(0)	(0)	(0)	(0)		Fp	2
Acrylamide (ACAM) - Sodium 2-acrylamido-2-methyl-1-propanesulphonic acid (AMPS) Copolymer (68:32 ACAM:AMPS)	4245									CAS No						
Acrylamide (ACAM) - Sodium 2-acrylamido-2-methyl-1-propanesulphonic acid (AMPS) Copolymer (70:30 ACAM:AMPS)	2535	0	NI	0	NR	0	0	(0)	(0)	(0)	(0)	(0)	(0)		Fp	2
Acrylamide (ACAM) - Sodium 2-acrylamido-2-methyl-1-propanesulphonic acid (AMPS) Copolymer (70:30 ACAM:AMPS)	4244									CAS No						
Acrylamide, polymer with sodium 2-acrylamido-2-methyl-1-propanesulphonic acid (AMPS), tetraethylene glycol diacrylate, and methylene-bisacrylamide	2534	0	NI	0	NR	1	0	0	0	(0)	0	0	0		Fp	2
Acrylamide, polymer with sodium 2-acrylamido-2-methyl-1-propanesulphonic acid (AMPS), tetraethylene glycol diacrylate, and methylene-bisacrylamide	4243									CAS No						
Acrylic acid		24	0	0	0	R	4	NI	2	2	2	3C	3		D	3
Acrylic acid		71								CAS No	79-10-7					

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GESAMP Hazard Profiles

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EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Acrylic acid / dimethyldiallylammonium chloride copolymer, partial sodium salt (MWt 1500-4000, aqueous solution)	2406	0	NI	0	R	0	0	0	0	(0)	0	0		D	0	
Acrylic acid / dimethyldiallylammonium chloride copolymer, partial sodium salt (MWt 1500-4000, aqueous solution)	3682												CAS No			
Acrylic acid/ethenesulphonic acid copolymer with phosphonate groups, sodium salt (aqueous solution)	2417	0	NI	0	NR	0	NI	0	(0)	(0)	0	0		D	0	
Acrylic acid/ethenesulphonic acid copolymer with phosphonate groups, sodium salt solution	3693												CAS No			
Acrylonitrile	25	0	2	2	NR	3	0	2	3	3	2	2	CMSs	NT	DE	3
Acrylonitrile	72												CAS No	107-13-1		
Acrylonitrile-styrene copolymer dispersion in polyether polyol (LOA)	1432	NI	0	0	NI	1	NI	0	(0)	(0)	0	(0)		S	0	
Acrylonitrile-Styrene copolymer dispersion in polyether polyol	73												CAS No			
Adiponitrile	26	0	0	0	R	1	NI	3	(3)	3	3	(3)		FD	3	
Adiponitrile	74												CAS No	111-69-3		
Alachlor (ISO)	1488	3	3	3	NI	4	1	1	0	(2)	1	0	CSs	S	3	
Alachlor technical (90% or more)	75												CAS No	15972-60-8		
Alcoholic beverages	293	0	0	0	R	0	0	0	0	0	0	1		D	1	
Alcoholic beverages, n.o.s.	85												CAS No			
Alcoholic silicasol	2198	0	0	0	R	0	0	0	0	0	1	2		DE	2	
Tetraethyl silicate monomer/oligomer (20% in ethanol)	2475												CAS No			
Alcohol(C12-C16) poly(20 and above)ethoxylates	1482	4	(3)	(3)	R	2	0	(0)	(0)	(2)	2	1		D	2	
Alcohol (C12-C16) poly(20+)ethoxylates	78												CAS No			
Alcohol(C6-C17)(secondary) poly(3-6)ethoxylate	722	4	3	3	R	4	2	0	(0)	(3)	3	2		D	3	
Alcohol (C6-C17) (secondary) poly(3-6)ethoxylates	81												CAS No			
Alcohol(C6-C17)(secondary) poly(7-12)ethoxylate	295	3	3	3	R	4	1	1	0	(3)	3	3		D	3	
Alcohol (C6-C17) (secondary) poly(7-12)ethoxylates	80												CAS No			
Alcohol (C10-C18) poly (7) ethoxylate (#)	2488	NI	(3)	(3)	R	3	1	(1)	(0)	(2)	(2)	(2)		D	2	
Alcohol (C10-C18) poly (7) ethoxylate	3979												CAS No	85422-93-1		
Alcohol (C8-C11) poly(2.5-9)ethoxylates	2094	3	3	3	R	3	NI	1	0	(2)	(2)	(2)		D	2	
Alcohol (C9-C11) poly(2.5-9)ethoxylate	2209												CAS No			
Alcohol(C12-C16) poly(1-6) ethoxylates	294	5	3	3	R	4	1	0	0	(2)	2	2		FD	2	
Alcohol (C12-C16) poly(1-6) ethoxylates	77												CAS No			

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EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Alcohol(C12-C16) poly(7-19)ethoxylates	1481	4	3	3	R	4	1	1	0	(3)	3	3		D	3	
Alcohol (C12-C16) poly(7-19)ethoxylates	79									CAS No						
Alcohol(C12-C14)poly(2)ethoxylate sulphate, sodium salt (*)	2419	2	NI	2	R	3	NI	NI	NI	NI	NI	NI		NI	NI	
	3695									CAS No						
Alcohols (C8-C11)	2279	5	2	2	(R)	(3)	(1)	(0)	(0)	(2)	(2)	(2)		Fp	2	
Alcohols (C8-C11), primary, linear and essentially linear	2887									CAS No						
Alcohols, C13 and above as individuals and mixtures	2039	5	2	2	R	4	1	0	0	0	(1)	(1)		Fp	2	
Alcohols (C13+)	86									CAS No						
Alcohols, C10-C16 ethoxylated propoxylated (*)	2450	0	NI	0	R	3	NI	NI	NI	NI	NI	NI		NI	NI	
	3868									CAS No						
Alcohols (C12-C13), linear	2294	5	2	2	R	4	(1)	0	0	(1)	1	1		Fp	2	
Alcohols (C12-C13), primary, linear and essentially linear	2950									CAS No						
Alcohols (C14-C18), linear	2293	5	2	2	R	0	1	0	0	(1)	1	1		Fp	2	
Alcohols (C14-C18), primary, linear and essentially linear	2951									CAS No						
Alcohols, linear (C10-C14)	2365	(5)	(2)	(2)	(R)	(4)	(1)	0	0	(2)	(2)	(2)		Fp	2	
Decyl/Dodecyl/Tetradecyl alcohol mixture	3128									CAS No						
Alkanes (C6-C9)	2202	(5)	NI	(5)	(R)	(4)	NI	(0)	(0)	(1)	(2)	(2)	N	FE	2	
Alkanes (C6-C9)	88									CAS No						
Iso- and cyclo-alkanes (C10-C11)	2203	(5)	NI	(5)	NI	(0)	(0)	(0)	(0)	(1)	(1)	(0)		F	1	
Iso- and cyclo-alkanes (C10-C11)	393									CAS No						
Iso-and cyclo-alkanes (C12+)	2204	(5)	NI	(5)	NI	(0)	NI	0	0	(1)	(0)	(0)	A	NI	2	
Iso- and cyclo-alkanes (C12+)	394									CAS No						
Alkanes (C5-C7), linear and branched	2464	(5)	NI	(5)	(R)	(3)	(0)	0	0	0	2	0	NA	E	2	
Alkanes (C5-C7), linear and branched	3799									CAS No						
Alkanes (C10-C17), linear and branched	2463	(5)	NI	(5)	R	0	1	0	0	(0)	0	0	A	F	3	
Alkanes (C10-C17), linear and branched	3815									CAS No						
Alkanes (C10-C26), linear and branched	2392	0	NI	0	R	0	NI	0	0	(1)	1	1	A	F	3	
Alkanes (C10-C26), linear and branched (flashpoint ≤60°C)	3736									CAS No	90622-53-0					
Alkanes (C4-C12) linear, branched and cyclic (containing benzene up to 1%)	2510	(4)	(4)	(4)	R	(3)	(2)	0	0	0	2	(1)	CMA	F	3	
Alkanes (C4-C12) linear, branched and cyclic	3999									CAS No						

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EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Alkanes (C9-C24) linear, branched and cyclic	2511	(5)	(4)	(4)	NR	(2)	(1)	0	(0)	0	(2)	0	A	F	3	
Alkanes (C9-C24) linear, branched and cyclic (flashpoint >60°C)	3998												CAS No			
Alkanes (C9-C24) linear, branched and cyclic	2540	(5)	(4)	(4)	NR	(2)	(1)	0	(0)	0	(2)	0	A	F	3	
Alkanes (C9-C24) linear, branched and cyclic	4250												CAS No			
n-Alkanes (C9-C11)	2449	(5)	NI	(5)	R	0	(0)	0	0	(0)	1	0	A	F	3	
n-Alkanes (C9-C11)	3884												CAS No			
n-Alkanes (C10-C20)	296	(5)	(5)	(5)	(R)	(0)	NI	(0)	(0)	(0)	(1)	(1)	A	Fp	3	
n-Alkanes (C10-C20)	471												CAS No			
Alkane (C14-C17) sulphonic acid, sodium salt (60-65% solution)	334	2	2	2	R	3	1	0	0	(2)	2	2		D	2	
Sodium alkyl (C14-C17) sulphonates (60-65% solution)	1153												CAS No			
Alkaryl polyether (C9-C20) (LOA)	1974	4	NI	4	NR	3	NI	0	0	(3)	2	3		S	2	
Alkaryl polyethers (C9-C20)	90												CAS No			
Alkenoic acid ester, borated	2376	5	(3)	(3)	R	2	NI	0	0	(2)	2	0		Fp	2	
	3153												CAS No			
Alkenylamide, long chain, more than C10	1858	3	NI	3	(NR)	4	NI	0	(0)	(1)	0	1		Fp	2	
Alkenyl (C11+) amide	838												CAS No			
Alkenyl succinic anhydride	298	0	0	0	NR	1	NI	0	0	(2)	2	(2)	SsSr	FD	2	
Alkenyl (C16-C20) succinic anhydride	2336												CAS No			
Alkyl acrylate/Vinyl pyridine copolymer in toluene	299	2	2	2	R	2	0	0	0	(2)	2	2	RNA	F/Fp	3	
Alkyl acrylate/vinylpyridine copolymer in toluene	94												CAS No			
Alkyl/cyclo(C4-C5)alcohols	2447	(1)	(1)	(1)	(R)	(2)	(0)	(1)	(1)	(2)	(2)	(3)		FED	3	
	3825												CAS No			
Alkyl/cyclo(C4-C5)alcohols	2447	(1)	(1)	(1)	(R)	(2)	(0)	(1)	(1)	(2)	(2)	(3)		FED	3	
Alkyl/cyclo (C4-C5) alcohols	3962												CAS No			
Alkyl amine, alkenyl acid ester, mixture	1433	NI	NI	NI	NI	1	NI	(0)	(0)	NI	NI	NI		Fp	2	
Alkyl(C8+)amine, Alkenyl (C12+) acid ester mixture	98												CAS No			
Alkylaryl phosphate mixtures (more than 40% Diphenyl tolyl phosphate, less than 0.02% ortho-isomers)	2267	4	4	4	R	4	4	0	0	(1)	1	0		S	1	
Alkylaryl phosphate mixtures (more than 40% Diphenyl tolyl phosphate, less than 0.02% ortho-isomers)	280												CAS No			
Alkylated phenols (C4-C9)	2273	0	2	0	NR	1	0	1	0	(2)	1	1		Fp	2	
Alkylated (C4-C9) hindered phenols	2575												CAS No			

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EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Alkylbenzene distillation bottoms	300	0	2	2	NR	0	(3)	0	0	1	1	1		Fp	2	
Alkylbenzene distillation bottoms	3106												CAS No			
Alkyl (C12-C15) benzene/indane/indene mixture	1872	0	4	4	NR	0	NI	0	0	0	0	2		FE	2	
Alkylbenzene, alkylindane, alkylindene mixture (each C12-C17)	103												CAS No			
Alkylbenzene mixtures (containing at least 50% of toluene)	2303	(2)	(2)	(2)	(R)	(3)	(0)	0	0	(2)	2	2	ACMNR	FE	3	
Alkylbenzene mixtures (containing at least 50% of toluene)	2909												CAS No			
Alkyl (C3-C4) benzenes	2206	(3)	NI	(3)	R	4	NI	0	0	(2)	(2)	(1)		FE	2	
Alkyl (C3-C4) benzenes	91												CAS No			
Alkyl (C5-C8) benzenes	2207	5	4	4	(NR)	4	NI	0	0	(2)	(2)	(1)		F	2	
Alkyl (C5-C8) benzenes	92												CAS No			
Alkyl benzenes, C9-C17 (straight or branched)	1783	0	4	4	NR	1	NI	0	(0)	(1)	(1)	(1)		F	1	
Alkyl(C9+)benzenes	100												CAS No			
Alkylbenzenes mixture (containing less than 1% naphthalene)	2423	3	3	3	NR	4	NI	0	0	(2)	2	1	A	F	3	
Alkylbenzenes mixture (containing less than 1% naphthalene)	3600												CAS No			
Alkylbenzenes mixtures (containing naphthalene)	2424	(3)	(3)	(3)	(NR)	(4)	NI	0	0	(1)	1	1	A	F	3	
Alkylbenzenes mixtures (containing naphthalene)	3966												CAS No			
Alkyl(C11-C13)benzenesulphonates, straight chain	301	3	3	3	R	3	1	1	(1)	(3)	2	3		FD	3	
Alkylbenzene sulphonic acid, sodium salt solution	102												CAS No	42615-29-2		
Alkyl (C3-C11) benzenes with phenol-formaldehyde/acrylate polymers (33% or less) (#)	2517	4	NI	4	NR	2	0	0	0	(2)	(2)	(2)	MASs	F	3	
Alkyl (C3-C11) benzenes with phenol-formaldehyde/acrylate polymers (33% or less)	4198												CAS No			
Alkyl(branched C10-C18, C12 rich)phenols	2504	0	4	4	NR	5	3	0	0	(3)	3	3	R	Fp	3	
Alkylphenols (C10-C18, C12 rich)	4070												CAS No			
Alkyl dithiocarbamate (C19-C35)	2236	0	NI	0	NI	1	NI	0	0	(0)	0	0		S	0	
Alkyl dithiocarbamate (C19-C35)	2538												CAS No			
Alkyl dithio thiadiazole (C6-C24) (LOA)	1981	5	NI	5	NR	1	NI	0	0	(0)	0	0		S	2	
Alkyl dithiothiadiazole (C6-C24)	104												CAS No			
Alkyl(C4-C20) ester copolymer (LOA)	1986	NI	0	0	NR	0	NI	0	0	(0)	0	0		Fp	2	
Alkyl ester copolymer (C4-C20)	2202												CAS No			
Alkylnaphthalenes, crude (containing less than 1% naphthalene)	2425	4	4	4	R	4	NI	0	0	(1)	1	1	AC	F	3	
Alkylnaphthalenes (containing less than 1% naphthalene), crude	3601												CAS No			

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Alkylnaphthalenes, crude (containing naphthalene)	2426	(4)	(4)	(4)	(R)	(4)	NI	0	0	(1)	1	1	AC	F	3	
Alkylnaphthalenes (containing naphthalenes), crude	3699									CAS No						
Alkyl (C7-C9) nitrates	8	4	NI	4	NR	3	NI	0	0	(3)	2	(3)		F	3	
Alkyl (C7-C9) nitrates	93									CAS No						
Alkyl(C8-C40)phenol sulphide (LOA)	1985	0	NI	0	NR	0	NI	0	0	(1)	1	1		FD	1	
Alkyl (C8-C40) phenol sulphide	2253									CAS No						
Alkyl(C8-C9)phenylamine, in aromatic solvent (LOA)	2096	2	NI	2	NR	3	NI	(0)	(0)	(2)	2	2		S	2	
Alkyl (C8-C9) phenylamine in aromatic solvents	2200									CAS No						
Alkyl (C9-C15) phenyl propoxylate	2188	0	NI	0	NR	0	NI	0	0	(2)	2	2		FD	2	
Alkyl (C9-C15) phenyl propoxylate	2430									CAS No						
Alkyl[(C8-C10)/(C12-C14)]:(<40%/>60%)polyglucoside mixture solution (max 55% active material)	2134	3	NI	3	R	3	0	0	0	(3)	2	3		D	3	
Alkyl (C8-C10)/(C12-C14):(40% or less/60% or more) polyglucoside solution (55% or less)	2248									CAS No	141464-42-8					
Alkyl[(C8-C10)/(C12-C14)]:(>60%/<40%)polyglucoside mixture solution (max 55% active material)	2135	3	NI	3	R	2	0	0	0	(2)	2	2		D	2	
Alkyl (C8-C10)/(C12-C14):(60% or more/40% or less) polyglucoside solution(55% or less)	2246									CAS No	141464-42-8					
Alkyl(C8-C10)polyglucoside solution (max 65% active material)	2136	1	NI	1	R	2	0	0	0	(2)	2	2		D	2	
Alkyl (C8-C10) polyglucoside solution (65% or less)	2245									CAS No	68515-73-1					
Alkyl (C8-C10)/(C12-C14):(50%/50%) polyglucoside solution (55% or less)	2133	3	NI	3	R	2	0	0	0	(3)	2	(3)		D	3	
Alkyl (C8-C10)/(C12-C14):(50%/50%) polyglucoside solution (55% or less)	2247									CAS No						
Alkyl(C12-C14)polyglucoside solution (max 55% active material)	2137	3	NI	3	R	3	0	0	0	(3)	2	3		D	3	
Alkyl (C12-C14) polyglucoside solution (55% or less)	2249									CAS No	110615-47-9					
Alkyl (C10-C15, C12 rich) phenol poly(4-12)ethoxylate (#)	2480	(5)	(4)	(4)	(NR)	(2)	NI	(0)	(0)	(2)	(2)	(1)		SD	2	
Alkyl (C10-C15, C12 rich) phenol poly(4-12)ethoxylate	3953									CAS No						
Alkylsulphonic acid ester of phenol (MESAMOLL)	1878	5	NI	5	NR	0	NI	0	(0)	(0)	0	0		S	0	
Alkyl sulphonic acid ester of phenol	1701									CAS No	91082-17-6					
Alkytoluenes	2374	0	2	2	NR	0	NI	0	(0)	(1)	0	1		Fp	2	
Alkyl (C18+) toluenes	3148									CAS No						
Alkyl(C18-C28)toluenesulphonic acid (>90% in mineral oil)	2429	0	4	4	NR	3	NI	0	0	(3)	2	3	Ss	Fp	3	
Alkyl(C18-C28)toluenesulphonic acid	3658									CAS No						
Alkyl(C18-C28)toluenesulphonic acid, calcium salts, borated (up to 70% in mineral oil)	2404	0	4	4	NR	0	NI	(0)	(0)	(1)	(1)	(1)	Ss	S	2	
Alkyl(C18-C28)toluenesulphonic acid, calcium salts, borated	3661									CAS No						

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Alkyl(C18-C28)toluenesulphonic acid, calcium salts, high overbase (up to 70% in mineral oil)	2373	(0)	(4)	(4)	(NR)	(0)	NI	0	0	(0)	0	0	Ss	S	2	
Alkyl (C18-C28) toluenesulphonic acid, calcium salts, high overbase	3149												CAS No			
Alkyl(C18-C28)toluenesulphonic acid, calcium salts, low overbase (up to 60% in mineral oil)	2409	0	4	4	NR	0	NI	0	0	(2)	2	0	Ss	Fp	3	
Alkyl (C18-C28) toluenesulphonic acid, calcium salts, low overbase	3685												CAS No			
Allyl alcohol	28	0	0	0	R	4	NI	2	3	3	2	3	A	D	3	
Allyl alcohol	105												CAS No	107-18-6		
Aluminium chloride/hydrogen chloride solution	336	Inorg	NI	2	Inorg	3	1	1	(0)	3	(3C)	3		D	3	
Aluminium chloride (30% or less)/Hydrochloric acid (20% or less) solution	110												CAS No			
Aluminium hydroxide, sodium hydroxide, sodium carbonate solution (40% or less)	2438	Inorg	0	0	Inorg	3	NI	0	0	(3)	3B	(3)		D	3	
Aluminium hydroxide, sodium hydroxide, sodium carbonate solution (40% or less)	3807												CAS No			
Aluminium sulphate solution	2205	Inorg	Inorg	2	Inorg	3	1	1	(0)	(3)	(2)	(3)		D	3	
Aluminium sulphate solution	111												CAS No			
Amides, coco, N-[3-(dibutylamino) propyl], acrylates	2513	(4)	NI	(4)	NR	4	NI	0	0	(2)	2	2		Fp	2	
	4162												CAS No	851545-09-0		
2-(2-Aminoethoxy) ethanol	75	0	0	0	NR	1	0	0	1	(3)	3	3		D	3	
2-(2-Aminoethoxy) ethanol	37												CAS No	929-06-6		
Aminoethylethanolamine	68	0	0	0	NR	1	0	0	0	(3)	3B	2	SsSr	D	3	
Aminoethyl ethanolamine	112												CAS No	111-41-1		
Aminoethylethanolamine/Aminoethylidethanolamine solution	74	Inorg	0	0	NR	1	0	(0)	(0)	(3)	(3B)	(2)	SsSr	D	3	
Aminoethylidethanolamine/Aminoethylethanolamine solution	113												CAS No			
N-Aminoethylpiperazine	88	0	0	0	NR	1	NI	0	2	(3)	3	3	Ss	D	3	
N-Aminoethylpiperazine	472												CAS No	140-31-8		
2-Amino-2-(hydroxymethyl)-1,3-propanediol solution(40% or less)	89	0	NI	0	NI	1	NI	0	0	NI	NI	NI		D	NI	
2-Amino-2-hydroxymethyl-1,3-propanediol solution (40% or less)	38												CAS No	77-86-1		
2-Amino-2-methyl-1-propanol	90	0	0	0	NR	1	NI	0	0	(3)	3	3		DE	3	
2-Amino-2-methyl-1-propanol	39												CAS No	124-68-5		
Ammonia (anhydrous and aqueous, 28% or less)	91	0	0	0	R	3	2	1	(2)	3	3	3		DE	3	
Ammonia aqueous (28% or less)	114												CAS No	7664-41-7		
Ammonium bisulphite solution, greater than 15%	1730	NI	NI	NI	NI	1	NI	NI	NI	NI	NI	NI		D	2	
Ammonium bisulphite solution (70% or less)	115												CAS No	10192-30-0		

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Ammonium chloride solution (less than 25%)	2388	0	NI	0	Inorg	1	0	0	(0)	(2)	2	2		D	2	
Ammonium chloride solution (less than 25%) (*)	3411									CAS No	12125-02-9					
Ammonium lignosulphonate (46% solution in water)	2086	0	NI	0	NR	0	NI	0	(0)	(0)	0	0		D	0	
Ammonium lignosulphonate solutions	118									CAS No	8061-53-0					
Ammonium nitrate solutions	1912	Inorg	0	0	Inorg	1	NI	0	0	(2)	1	2		D	2	
Ammonium nitrate solution (93% or less)	119									CAS No						
Ammonium polyphosphate solution	1764	Inorg	0	0	Inorg	1	NI	0	0	0	1	0		D	1	
Ammonium polyphosphate solution	120									CAS No	10-34-0					
Ammonium sulphate	99	0	0	0	Inorg	1	(0)	0	(0)	(0)	0	0		D	0	
Ammonium sulphate solution	121									CAS No	7783-20-2					
Ammonium sulphide soln.(45% or less)	310	Inorg	0	0	Inorg	3	NI	1	0	(2)	2	2	N	D	2	
Ammonium sulphide solution (45% or less)	122									CAS No	12124-99-1					
Ammonium thiocyanate/ Ammonium thiosulphate solution	1732	Inorg	0	0	Inorg	1	NI	1	NI	NI	NI	NI		D	NI	
Ammonium thiocyanate (25% or less)/Ammonium thiosulphate (20% or less) solution	123									CAS No						
Ammonium thiosulphate solution (60% or less)	312	Inorg	0	0	Inorg	1	NI	0	(0)	(1)	(1)	(1)		D	1	
Ammonium thiosulphate solution (60% or less)	124									CAS No	7783-18-8					
Amyl acetate	255	2	2	2	NR	2	NI	0	(0)	0	1	1		NT	FED	2
Amyl acetate (all isomers)	125									CAS No	628-63-7					
tert-Amyl ethyl ether	2428	3	NI	3	NR	1	NI	0	(0)	0	2	2		E	2	
tert-Amyl ethyl ether	3623									CAS No						
tert-Amyl methyl ether	2141	1	NI	1	NI	4	NI	1	0	2	0	1		ED	2	
tert-Amyl methyl ether	2210									CAS No						
Amyl propionate	1484	2	NI	2	R	2	NI	0	0	(2)	2	1		F	2	
n-Pentyl propionate	484									CAS No	624-54-4					
Aniline	261	0	0	0	R	3	2	2	2	3	1	3	CTSs	NT	FD	3
Aniline	127									CAS No	62-53-3					
Apple juice	275	0	NI	0	R	0	0	0	0	0	0	0		D	0	
Apple juice	130									CAS No						
Aryl polyolefin (C11-C50) (LOA)	1979	NI	NI	0	NR	0	NI	0	0	0	0	0		Fp	2	
Aryl polyolefins (C11-C50)	131									CAS No						

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L-Aspartic acid, homopolymer, sodium salt (aqueous solution)	2421	0	0	0	NR	0	NI	0	(0)	0	0	0	0	D	0	
L-Aspartic acid, homopolymer, sodium salt (aqueous solution)	3697													CAS No		
Aviation alkylates (C8 paraffins and iso-paraffins BPt 95-120 Celcius)	286	(5)	NI	(5)	(R)	(4)	NI	0	0	(0)	(0)	(0)	FE	2		
Aviation alkylates (C8 paraffins and iso-paraffins BPT 95 - 120°C)	132													CAS No		
Aziridine polymer with methyloxirane (78% in diethylene glycol monoethyl ether)	2436	0	NI	0	NR	2	0	0	0	0	1	0	Fp	2		
Aziridine polymer with methyloxirane (78% in diethylene glycol monoethyl ether)	3751													CAS No		
Barium long chain alkaryl sulphonate (C11-C50) (LOA)	1978	4	NI	4	NR	3	NI	2	0	(2)	0	0	S	2		
Barium long chain (C11-C50) alkaryl sulphonate	2370													CAS No		
Benzaldehyde	2498	1	NI	1	R	3	NI	1	(1)	2	2	2	FD	2		
Benzaldehyde	4132													CAS No	100-52-7	
Benzene	324	2	1	1	R	2	NI	1	0	0	2	2	CTM	NT	E	3
Benzene and mixtures having 10% benzene or more (i)	133													CAS No	71-43-2	
Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl), 4-hydroxy-C7-C9 alcohols branched and linear	2378	0	3	3	NR	3	0	0	0	(0)	0	0	Fp	2		
Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl), 4-hydroxy-C7-C9 alcohols branched and linear	3405													CAS No		
Benzene sulphonyl chloride	320	1	1	1	R	3	NI	1	(2)	(3)	3	3	Ss	SD	3	
Benzene sulphonyl chloride	134													CAS No	98-09-9	
1,2,4-Benzene tricarboxylic acid, trioctyl ester	1733	0	0	0	NR	0	NI	0	(0)	2	1	1	Fp	2		
Benzenetricarboxylic acid, trioctyl ester	136													CAS No		
Benzyl acetate	348	1	NI	1	R	3	1	1	0	2	1	1	SD	2		
Benzyl acetate	138													CAS No	140-11-4	
Benzyl alcohol	349	1	NI	1	R	2	NI	1	1	2	2	2	SD	2		
Benzyl alcohol	139													CAS No	100-51-6	
Benzyl chloride	352	NI	1	1	R	3	1	1	(2)	3	3	3	CSsA	S	3	
Benzyl chloride	140													CAS No	100-44-7	
Bis(2-ethylhexyl) terephthalate	2437	0	3	3	R	0	0	0	0	(1)	1	1	Fp	2		
Bis(2-ethylhexyl) terephthalate	3752													CAS No		
N,N-Bis(2-hydroxyethyl)oleamide (LOA)	2110	5	NI	5	NR	NI	NI	0	0	(2)	2	2	Fp	2		
N,N-bis(2-hydroxyethyl) oleamide	2201													CAS No		
Bismuth oxide	2483	Inorg	(0)	(0)	Inorg	(0)	(0)	0	(0)	0	0	0	S	0		
Bismuth oxide	4059													CAS No	1304-76-3	

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Bis[3-(triethoxysilyl)propyl]amine		2444	1	NI	1	R	1	NI	0	0	(2)	2	2		D	2	
		3823												CAS No	13497-18-2		
Borax, anhydrous or hydrated, crude or refined		359	Inorg	0	0	Inorg	1	0	0	0	(1)	1	1	R	S	3	
Borax		143												CAS No	1303-96-4		
Boric acid		360	Inorg	0	0	Inorg	1	0	0	(0)	(1)	1	1	R	S	3	
Boric acid		2254												CAS No	10043-35-3		
Bromochloromethane		2084	1	1	1	NR	1	NI	0	0	0	1	0		SD	1	
Bromochloromethane		145												CAS No	74-97-5		
1-Bromopropane		2229	2	NI	2	NI	NI	NI	0	(0)	0	(2)	(2)		SD	2	
1-Bromopropane		2696												CAS No			
Butanol		381	0	(0)	0	R	0	NI	0	0	0	2	3		NT	D	3
Butyl alcohol (all isomers)		2216												CAS No	71-36-3		
Butanol		381	0	(0)	0	R	0	NI	0	0	0	2	3		NT	D	3
n-Butyl alcohol		474												CAS No	71-36-3		
sec-Butanol		383	0	(0)	0	R	0	NI	0	0	0	0	2		NT	D	2
sec-Butyl alcohol		638												CAS No	78-92-2		
tert-Butanol		384	0	0	0	NR	1	NI	0	0	0	1	3		NT	D	3
tert-Butyl alcohol		686												CAS No	75-65-0		
2-Butanone		385	0	NI	0	R	1	0	0	0	1	2	2		DE	2	
Methyl ethyl ketone		446												CAS No	78-93-3		
Butene oligomer		386	0	NI	0	NR	(4)	0	0	0	0	0	1		FE	2	
Butene oligomer		146												CAS No			
2-Butoxyethanol/hyperbranched polyesteramide mixture		2446	NI	NI	(0)	NR	(2)	NI	1	2	2	1	2		D	2	
2-Butoxyethanol (58%)/Hyperbranched polyesteramide (42%) (mixture)		3901												CAS No			
Butyl acetate		387	1	NI	1	R	2	NI	0	0	0	0	1		FED	2	
Butyl acetate (all isomers)		147												CAS No	123-86-4		
Butyl acrylate		390	2	NI	2	R	3	NI	1	1	1	2	2	SsA	FED	2	
Butyl acrylate (all isomers)		148												CAS No	141-32-2		
Butylamine		392	0	NI	0	R	2	NI	2	2	2	3	3C	3		DE	3
Butylamine (all isomers)		154												CAS No	109-73-9		

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Butyl benzene	1774	4	NI	4	NI	4	1	0	0	(2)	2	1		Fp	2	
Butylbenzene (all isomers)	155									CAS No	104-51-8					
Butyl benzyl phthalate	398	4	4	4	R	4	2	0	0	(0)	(0)	(0)	R	S	3	
Butyl benzyl phthalate	149									CAS No	85-68-7					
Butyl butyrate	399	2	NI	2	(R)	2	NI	0	0	(1)	1	NI		FE	2	
Butyl butyrate (all isomers)	150									CAS No	109-21-7					
Butyl/Decyl/Cetyl/Eicosyl methacrylate mixture	2295	(5)	NI	(5)	(R)	(3)	NI	0	0	0	2	2	Ss	FE	2	
Butyl/Decyl/Cetyl/Eicosyl methacrylate mixture	153									CAS No						
Butylene glycol(s)	402	0	NI	0	R	1	NI	1	0	0	0	0		D	1	
Butylene glycol	156									CAS No	110-63-4					
Butylene glycol methyl ether acetate	953	1	1	1	R	3	NI	0	(0)	(1)	1	1		FED	1	
3-Methoxybutyl acetate	58									CAS No	4435-53-4					
Butylene glycol monomethyl ether	952	0	NI	0	R	1	NI	0	0	(1)	0	1		D	1	
3-Methoxy-1-butanol	57									CAS No	2517-43-3					
1,2-Butylene oxide	403	0	NI	0	NR	2	NI	1	1	2	2	2	C	DE	3	
1,2-Butylene oxide	8									CAS No	106-88-7					
Butyl methacrylate	409	2	NI	2	NR	1	NI	0	0	0	2	2	Ss	FE	2	
Butyl methacrylate	151									CAS No	97-88-1					
Butyl octyl phthalate	410	5	NI	5	(R)	0	2	0	(0)	(1)	(1)	(1)		Fp	2	
Butyl octyl phthalate	2749									CAS No	84-78-6					
Butyl phosphate/dibutyl phosphate mixture	2434	2	NI	2	R	1	0	0	(0)	(3)	2	3		D	3	
Butyl phosphate/dibutyl phosphate mixture	3749									CAS No						
Butyl propionate	1483	2	NI	2	R	2	NI	0	0	0	1	1		FED	2	
n-Butyl propionate	476									CAS No	590-01-2					
1-Butylpyrrolidin-2-one	2490	1	(1)	1	R	1	0	1	0	0	1	2		D	2	
	4124									CAS No	3470-98-2					
Butyl stearate	413	0	NI	0	(R)	0	NI	0	NI	NI	2	NI		Fp	2	
Butyl stearate	152									CAS No	123-95-5					
Butyraldehyde	416	1	NI	1	R	2	0	0	1	0	3	3		DE	3	
Butyraldehyde (all isomers)	157									CAS No	123-72-8					

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Butyric acid	418	0	NI	0	R	2	0	0	0	0	3A	3		D	3	
Butyric acid	158									CAS No	107-92-6					
Butyrolactone	420	0	NI	0	R	(3)	NI	1	(0)	0	0	1	C		D	3
gamma-Butyrolactone	360									CAS No	96-48-0					
Calcium alkyl (long chain) salicylate (overbased) in mineral oil (LOA)	70	0	NI	0	NR	2	NI	0	0	(1)	(1)	(1)	Ss		Fp	3
Calcium long-chain alkyl salicylate (C13+)	166									CAS No						
Calcium alkyl phenol sulphide,polyolefin phosphorosulphide mixture (LOA)	1435	NI	NI	NI	NR	4	NI	0	0	(0)	NI	NI			NI	NI
Calcium alkyl (C9) phenol sulphide/Polyolefin phosphorosulphide mixture	160									CAS No						
Calcium alkyl salicylate	2015	3	NI	3	NR	2	NI	0	0	(2)	2	2			Fp	2
Calcium alkyl (C10-C28) salicylate	3152									CAS No						
Calcium bromide (solutions)	427	Inorg	NI	0	Inorg	0	0	(0)	(0)	(2)	(1)	(2)			D	2
Drilling brines (containing calcium bromide)	308									CAS No	7789-41-5					
Calcium carbonate slurry	2016	Inorg	0	0	Inorg	0	NI	0	(0)	(0)	0	0		S	0	
Calcium carbonate slurry	161									CAS No	471-34-1					
Calcium chloride solution (less than 35%)	2519	Inorg	0	0	Inorg	0	0	1	0	(3)	1	3			D	0
Calcium chloride solution (less than 35%)	4227									CAS No						
Calcium hydroxide	431	Inorg	0	0	Inorg	2	NI	0	(0)	(2)	1	2			S	2
Calcium hydroxide slurry	162									CAS No	1305-62-0					
Calcium hypochlorite solutions containing 15% Ca(OCl)2 or more	432	Inorg	0	0	Inorg	5	NI	1	0	2	3A	3			D	3
Calcium hypochlorite solution (more than 15%)	164									CAS No	7778-54-3					
Calcium hypochlorite solutions containing less than 15% but more than 1.5% Ca(OCl)2	2073	Inorg	0	0	Inorg	(4)	NI	1	0	2	3A	3			D	3
Calcium hypochlorite solution (15% or less)	163									CAS No	7778-54-3					
Calcium lignosulphonate (52% solution in water)	2087	0	NI	0	NR	0	NI	0	(0)	(0)	0	0			D	0
Calcium lignosulphonate solutions	165									CAS No	8061-52-7					
Calcium long chain alkaryl sulphonate (C11-C50) (LOA)	1973	NI	0	0	NR	0	NI	0	0	(1)	1	1			FD	1
Calcium alkaryl sulphonate (C11-C50)	169									CAS No						
Calcium long chain alkyl (C5-C10) phenate (LOA)	2106	0	NI	0	NR	2	NI	0	0	(0)	0	0			FD	1
Calcium long-chain alkyl (C5-C10) phenate	168									CAS No						
Calcium long chain alkyl (C11-C40) phenate (LOA)	2097	0	NI	0	NR	0	NI	0	0	(1)	1	1			Fp	2
Calcium long-chain alkyl (C11-C40) phenate	167									CAS No						

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Calcium long chain alkyl phenate sulphide (C8-C40) (LOA)	1756	0	NI	0	NR	1	NI	0	0	(1)	1	1		Fp	2	
Calcium long-chain alkyl phenate sulphide (C8-C40)	170									CAS No						
Calcium long-chain alkyl phenolic amine (C8-C40)	1728	NI	NI	NI	NR	0	NI	0	0	(1)	1	(1)		Fp	2	
	171									CAS No						
Calcium long-chain alkyl (C18-C28) salicylate	2383	0	NI	0	NR	0	NI	0	0	(1)	1	0	Ss	Fp	3	
Calcium long-chain alkyl (C18-C28) salicylate	3426									CAS No						
Calcium nitrate	1803	Inorg	0	0	Inorg	0	NI	0	(0)	(1)	1	1		D	1	
Calcium nitrate solutions (50% or less)	172								CAS No	10124-37-5						
Calcium nitrate/ Magnesium nitrate/Potassium chloride solution	1734	Inorg	0	0	Inorg	1	0	0	(0)	(1)	(1)	1		D	1	
Calcium nitrate/Magnesium nitrate/Potassium chloride solution	173								CAS No							
Camelina oil	2440	(0)	NI	(0)	(R)	(0)	(0)	(0)	(0)	(1)	(0)	(1)		Fp	2	
Camelina oil	3767								CAS No	68956-68-3						
Camphor oil, white	1897	NI	NI	NI	NI	NI	NI	2	NI	(2)	1	NI		(T)	FE	2
Camphor oil	174								CAS No	8008-51-3						
Caprolactam	436	0	NI	0	R	1	0	1	1	2	1	2		D	3	
epsilon-Caprolactam (molten or aqueous solutions)	310								CAS No	105-60-2						
Carbolic oil	437	(3)	3	(3)	(NR)	(3)	(1)	2	2	3	3	3	ATNCM	FED	3	
Carbolic oil	176								CAS No							
Carbon disulphide	439	2	1	1	NR	3	NI	2	(3)	4	3A	3	RN	SD	3	
Carbon disulphide	177								CAS No	75-15-0						
Cashew nut shell oil (untreated)	443	0	NI	0	R	0	NI	(0)	(0)	(2)	2	(2)	Ss	Fp	3	
Cashew nut shell oil (untreated)	179								CAS No							
Castor oil (containing less than 10% free fatty acids)	2314	0	NI	0	R	(2)	NI	0	0	(1)	1	1		Fp	2	
Castor oil	3044								CAS No							
Cesium Formate, drilling brines	2384	0	3	3	Inorg	2	NI	1	0	(2)	2	2		D	2	
Cesium formate solution (*)	3421								CAS No	3495-36-1						
Cetyl/Eicosyl methacrylate (mixture)	445	0	NI	0	(NR)	(0)	NI	0	(0)	(1)	(1)	(1)		Fp	2	
Cetyl/Eicosyl methacrylate mixture	180								CAS No							
Chlorinated paraffins (C18 and above) with any level of chlorine	2024	0	4	4	NR	0	2	0	0	(1)	(1)	(1)	C	S	3	
Chlorinated paraffins (C18+) with any level of chlorine	183								CAS No							

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Chlorinated paraffins (C10-C13) with 60% chlorine or more	2021	5	5	5	NR	5	2	0	0	(1)	1	1	C	S	3	
Chlorinated paraffins (C10-C13)	181												CAS No			
Chlorinated paraffins (C10- C13) with less than 60% chlorine	2020	5	5	5	NR	5	3	(0)	(0)	(1)	(1)	(1)	C	S	3	
Chlorinated paraffins (C10-C13) (60% chlorine or less)	2832												CAS No			
Chlorinated paraffins (C14-C17) with less than 1% shorter chain length	2112	5	4	4	NR	6	3	0	0	(2)	2	2	C	S	3	
Chlorinated paraffins (C14-C17) (with 50% chlorine or more, and less than 1% C13 or shorter chains)	182												CAS No			
Chloroacetic acid	450	0	NI	0	R	2	0	2	3	(4)	3C	3	A	D	3	
Chloroacetic acid (80% or less)	184												CAS No	79-11-8		
Chlorobenzene	456	2	2	2	NR	3	0	1	0	2	2	0		S	2	
Chlorobenzene	185												CAS No	108-90-7		
Chlorhydrins	463	0	NI	0	R	0	NI	(2)	(2)	(3)	(3A)	3	C	D	3	
Chlorhydrins (crude)	187												CAS No	96-24-2		
N-(3-Chloro-2-hydroxypropyl) trimethylammonium chloride solution (75% or less)	2286	0	0	0	NR	1	NI	0	0	(2)	0	(2)	C	D	3	
N-(3-Chloro-2-hydroxypropyl)trimethyl ammonium chloride solution (75% or less)	2579												CAS No			
4-Chloro-2-methylphenoxyacetic acid, dimethylamine salt solution	1536	2	NI	2	NI	2	NI	1	0	2	1	1		S	2	
4-Chloro-2-methylphenoxyacetic acid, dimethylamine salt solution	62												CAS No			
Chloronitrobenzenes	467	2	2	2	NR	3	NI	2	2	2	1	1		S	2	
o-Chloronitrobenzene	533												CAS No	25167-93-5		
1-(4-Chlorophenyl)-4,4-dimethyl-3-pentanone	1772	3	3	3	NR	3	NI	0	0	(1)	1	0		S	1	
1-(4-Chlorophenyl)-4,4- dimethyl-pentan-3-one	21												CAS No			
2-Chloropropionic acid	474	0	NI	0	R	1	NI	1	(3)	2	3A	3		D	3	
2- or 3-Chloropropionic acid	36												CAS No	598-78-7		
3-Chloropropylene	478	1	1	1	R	3	NI	1	0	2	1	3	T	E	3	
Allyl chloride	106												CAS No	107-05-1		
Chlorosulphonic acid	479	Inorg	0	0	Inorg	2	NI	(2)	(3)	4	3C	3		D	3	
Chlorosulphonic acid	188												CAS No	7790-94-5		
m-Chlorotoluene	481	3	NI	3	NR	2	NI	2	0	(2)	1	1		S	2	
m-Chlorotoluene	426												CAS No	108-41-8		
o-Chlorotoluene	480	3	3	3	NR	3	1	0	0	0	1	1		S	1	
o-Chlorotoluene	534												CAS No	95-49-8		

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o-Chlorotoluene	480	3	3	3	NR	3	1	0	0	0	1	1		S	1	
Chlorotoluenes (mixed isomers)	189									CAS No	95-49-8					
p-Chlorotoluene	482	3	3	3	NR	3	0	0	0	0	1	1		S	2	
p-Chlorotoluene	551									CAS No	106-43-4					
Choline chloride, solutions	485	0	NI	0	R	1	NI	0	(0)	(0)	0	0		D	0	
Choline chloride solutions	190									CAS No	67-48-1					
Choline hydroxide solution	2525	0	(0)	0	R	1	0	(0)	NI	(3)	3	3		D	3	
Choline hydroxide solution	4234									CAS No						
Cinnamaldehyde	2485	1	(2)	(2)	R	2	0	1	1	(2)	2	1	Ss	SD	2	
Cinnamaldehyde	4061									CAS No	104-55-2					
Citric acid	493	0	NI	0	R	1	0	0	(0)	(3)	1	3		D	3	
Citric acid (70% or less)	748									CAS No	77-92-9					
Citric juices	494	0	0	0	Inorg	0	0	0	0	0	0	0		D	0	
Water	740									CAS No						
Clay	495	Inorg	0	0	Inorg	0	0	0	0	0	0	0		S	0	
Clay slurry	191									CAS No						
Coal slurry	498	Inorg	0	0	Inorg	0	0	0	0	0	0	0		S	0	
Coal slurry	192									CAS No						
Coal tar	499	(4)	4	4	NR	3	1	0	0	0	2	2	CMR	(T)	S	3
Coal tar	193									CAS No	8007-45-2					
Coal tar naphtha	500	3	NI	3	NR	3	NI	0	0	(1)	1	1	C	(T)	FE	3
Coal tar naphtha solvent	194									CAS No	8030-30-6					
Coal tar pitch (molten)	491	3	(3)	(3)	NR	(4)	(2)	0	0	(1)	1	0	CM		S	3
Coal tar pitch (molten)	195									CAS No	65996-93-2					
Cobalt naphthenate in solvent naphtha	501	NI	NI	NI	NR	3	NI	0	(0)	(1)	NI	1	C		FE	3
Cobalt naphthenate in solvent naphtha	196									CAS No						
Cocoa butter	2342	0	NI	0	R	0	NI	(0)	(0)	(1)	(0)	(1)		Fp	2	
Cocoa butter	3096									CAS No						
Coconut acid oil	2370	0	0	0	R	3	NI	(0)	(0)	(1)	(1)	(1)		Fp	2	
Coconut acid oil	3139									CAS No						

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Coconut fatty acid distillate	2366	0	NI	0	R	(3)	NI	0	(0)	(1)	(1)	(1)		Fp	2	
Coconut fatty acid distillate	3130												CAS No			
Coconut oil	503	0	NI	0	R	1	NI	0	(0)	(1)	0	(1)		Fp	2	
Coconut oil	2772												CAS No	8001-31-8		
Coconut oil fatty acid	505	0	0	0	(R)	(3)	NI	0	(0)	(1)	(1)	(1)		Fp	2	
Coconut oil fatty acid	197												CAS No	61788-47-4		
Coconut oil fatty acid methyl ester	506	5	0	0	R	0	NI	(0)	(0)	(0)	(0)	(1)		Fp	2	
Coconut oil fatty acid methyl ester	198												CAS No	61788-59-8		
Concentrated filtrate of the neutralized reaction product of 5-[2-(methylthio)alkyl]imidazolidine-2,4-dione and potassium carbonate	2524	0	NI	0	R	1	0	0	NI	0	0	0		D	0	
Concentrated filtrate of the neutralized reaction product of 5-[2-(methylthio)alkyl]imidazolidine-2,4-dione and potassium carbonate	4233												CAS No			
Copper salt of long chain(>C17) alkanoic acid (LOA)	2111	0	NI	0	(R)	2	NI	0	0	(0)	0	0		Fp	2	
Copper salt of long chain (C17+) alkanoic acid	2214												CAS No			
Corn oil	521	0	NI	0	R	(2)	NI	0	(0)	(1)	1	1		Fp	2	
Corn Oil	2781												CAS No	8001-30-7		
Cotton seed oil	523	0	NI	0	R	(2)	NI	(0)	(0)	(1)	0	1		Fp	2	
Cotton seed oil	2783												CAS No	8001-29-4		
Creosote (coal tar)	524	(4)	(4)	(4)	NR	4	(2)	1	0	2	2	1	CMRSs	(T)	S	3
Creosote (coal tar)	199												CAS No	8001-58-9		
Creosote (wood tar)	525	NI	NI	NI	NR	5	NI	1	0	2	2	1	CM	(T)	SD	3
Creosote (wood)	200												CAS No	8021-39-4		
Creosote (coal tar) C8-C22, MW 116-278	2514	NI	(3)	(3)	(NR)	4	1	1	0	(2)	2	1	CMRSs		S	3
Creosote (coal tar) (C8-C22, MW 116-278)	4163												CAS No			
Cresol/Phenol/Xylenol mixture	2471	(2)	(2)	(2)	R	(3)	(1)	1	2	3	3B	3		SD	3	
Cresol/Phenol/Xylenol mixture	4021												CAS No			
Cresols (mixed isomers)	527	2	2	2	R	3	(1)	2	2	4	3A	3		T	SD	3
Cresols (all isomers)	201												CAS No	1319-77-3		
Cresylic acids, dephenolized	1875	2	2	2	R	3	0	(2)	(2)	(3)	(3A)	(3)		(T)	S	3
Cresylic acid, dephenolized	202												CAS No			

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Cresylic acid, sodium salt solution	1914	(2)	(2)	(2)	(R)	(3)	(0)	1	(1)	(3)	3	3	TCM	(T)	D	3
Cresylic acid, sodium salt solution	203													CAS No		
Crotonaldehyde	528	0	NI	0	NR	4	1	2	4	4	2	3			D	3
Crotonaldehyde	204													CAS No	4170-30-3	
Crude Piperazine	2331	0	NI	0	R	2	NI	(1)	(2)	(3)	3	3	SsSr		D	3
Crude Piperazine	2810													CAS No		
Crude Tall Oil	2357	4	NI	4	R	2	0	0	0	(0)	0	0	Ss		Fp	3
Tall oil, crude	3118													CAS No		
1,5,9-Cyclododecatriene	534	5	5	5	NR	4	NI	0	0	1	2	1	A		F	3
1,5,9-Cyclododecatriene	17													CAS No	4904-61-4	
Cycloheptane	535	4	NI	4	(NR)	4	NI	(0)	0	(1)	(0)	(1)			FE	2
Cycloheptane	205													CAS No	291-64-5	
Cyclohexane	536	3	3	3	NR	3	NI	0	0	1	0	1			E	2
Cyclohexane	206													CAS No	110-82-7	
Cyclohexane-1,2-dicarboxylic acid, diisononyl ester	2472	0	3	3	R	0	0	0	0	(1)	1	0			Fp	2
Cyclohexane-1,2-dicarboxylic acid, diisononyl ester	3915													CAS No	166412-78-8	
Cyclohexane oxidation products, sodium salts solution	2458	0	NI	0	Inorg	1	0	0	(0)	(0)	0	0			D	0
Cyclohexane oxidation products, sodium salts solution	3739													CAS No		
Cyclohexanol	537	1	NI	1	R	2	NI	0	0	0	2	2			Fp	2
Cyclohexanol	207													CAS No	108-93-0	
Cyclohexanone	539	0	1	1	R	1	0	1	1	1	2	2			FED	2
Cyclohexanone	208													CAS No	108-94-1	
Cyclohexanone/Cyclohexanol mixture	1436	1	1	1	R	2	NI	1	1	1	2	2			FED	2
Cyclohexanone, Cyclohexanol mixture	209													CAS No		
Cyclohexyl acetate	541	2	NI	2	(R)	(2)	NI	0	0	(2)	2	1			FED	2
Cyclohexyl acetate	210													CAS No	622-45-7	
Cyclohexylamine	542	1	NI	1	R	2	NI	2	2	3	3	3			D	3
Cyclohexylamine	211													CAS No	108-91-8	
1,3-Cyclopentadiene dimer (molten)	545	3	3	3	NR	3	NI	2	0	2	2	2			Fp	2
1,3-Cyclopentadiene dimer (molten)	11													CAS No	77-73-6	

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Cyclopentane	546	3	NI	3	NR	3	NI	(0)	(0)	0	1	(1)		E	2	
Cyclopentane	212												CAS No	287-92-3		
Cyclopentene	547	2	NI	2	(R)	3	NI	1	1	0	(2)	(0)	A	E	2	
Cyclopentene	213												CAS No	142-29-0		
Decahydronaphthalene	551	4	4	4	NR	3	NI	0	0	2	2	1		F	1	
Decahydronaphthalene	214												CAS No	91-17-8		
Decane	554	5	NI	5	R	0	0	0	0	0	1	0		F	1	
Decane	2620												CAS No	124-18-5		
Decanoic acid	555	4	NI	4	R	4	1	0	0	(2)	2	2		Fp	2	
Decanoic acid	215												CAS No	334-48-5		
1-Decene	558	5	NI	5	R	4	2	0	0	0	2	0	A	F	3	
Decene	216												CAS No	872-05-9		
Decyl acetate	1767	4	NI	4	NI	NI	NI	0	0	(1)	(1)	(1)		F	1	
Decyl acetate	217												CAS No	112-17-4		
Decyl acrylate	559	5	NI	5	(R)	5	NI	0	0	(2)	2	1		Fp	2	
Decyl acrylate	218												CAS No	2156-96-9		
Decyloxytetrahydrothiophene dioxide	1859	3	NI	3	NR	4	NI	0	0	(1)	1	0		Fp	2	
Decyloxytetrahydrothiophene dioxide	220												CAS No			
Dextrose solution	562	0	0	0	R	0	NI	0	0	0	0	(0)		D	0	
Dextrose solution	221												CAS No	50-99-7		
Dextrose solution	562	0	0	0	R	0	NI	0	0	0	0	(0)		D	0	
Glucose solution	361												CAS No	50-99-7		
Diacetone alcohol	563	0	NI	0	R	1	0	0	0	(2)	2	2		D	2	
Diacetone alcohol	226												CAS No	123-42-2		
Dialkyldiphenylamines (LOA)	1852	5	NI	5	NR	1	0	0	0	(0)	0	0		FD	0	
Dialkyl (C8-C9) diphenylamines	2255												CAS No			
Dialkyl (C9 - C10) phthalates	2359	(0)	(0)	(0)	(R)	(0)	(0)	(0)	(0)	(1)	(1)	(1)		Fp	2	
Dialkyl (C9 - C10) phthalates	3121												CAS No			
Dialkyl phthalates C9-C13	566	(0)	(4)	(4)	(NR)	(0)	(2)	(0)	(0)	(1)	(1)	(1)	R	Fp	3	
Dialkyl (C7-C13) phthalates	227												CAS No			

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2,6-Diaminohexanoic acid phosphonate mixed salts solution (#)	2469	1	NI	1	NR	1	(0)	(1)	(1)	(3)	(3)	(3)	(3)		D	3
2,6-Diaminohexanoic acid phosphonate mixed salts solution	3989													CAS No		
Diammonium hydrogen phosphate	98	0	0	0	Inorg	1	NI	0	0	(0)	(1)	(1)			D	1
Ammonium hydrogen phosphate solution	117													CAS No	7783-28-0	
Dibromomethane	574	1	NI	1	NR	(2)	NI	1	0	0	(2)	(2)			SD	2
Dibromomethane	228													CAS No	74-95-3	
Di-n-butylamine	577	2	NI	2	R	3	NI	2	2	3	3	3			FD	3
Dibutylamine	231													CAS No	111-92-2	
Di-butyl ether	578	3	3	3	NR	2	NI	0	0	0	1	1			FE	2
n-Butyl ether	475													CAS No	142-96-1	
Dibutyl hydrogen phosphonate	1857	1	NI	1	NI	2	NI	0	0	(3)	3	3			F	3
Dibutyl hydrogen phosphonate	229													CAS No	1809-19-4	
2,4-Di-tert-butyl phenol	2083	5	4	4	NR	4	NI	NI	NI	NI	NI	NI			NI	NI
2,4-Di-tert-butylphenol	2339													CAS No	96-76-4	
2,6-Di-tert-butyl phenol	2082	4	NI	4	NR	4	NI	0	0	(1)	1	1			Fp	2
2,6-Di-tert-butylphenol	2250													CAS No	128-39-2	
Di-n-butyl phthalate	582	4	4	4	R	4	1	0	0	1	0	1			S	3
Dibutyl phthalate	230													CAS No	84-74-2	
Dibutyl terephthalate	2430	5	(3)	(3)	R	4	2	0	0	(0)	0	0			S	0
Dibutyl terephthalate	3596													CAS No		
Dichlorobenzene (all isomers)	333	3	4	4	NR	3	1	1	0	1	(2)	2	CMR	T	S	3
Dichlorobenzene (all isomers)	232													CAS No		
3,4-Dichlorobut-1-ene	2079	2	2	2	NR	3	NI	1	0	2	2	3			S	3
3,4-Dichloro-1-butene	56													CAS No	760-23-6	
1,1-Dichloroethane	590	1	NI	1	NR	1	NI	1	(1)	0	2	2			SD	2
1,1-Dichloroethane	4													CAS No	75-34-3	
1,2-Dichloroethane	591	1	1	1	NR	2	0	1	0	2	1	2	C		SD	3
Ethylene dichloride	330													CAS No	107-06-2	
1,6-Dichlorohexane	593	3	NI	3	NR	3	NI	0	(0)	(0)	0	0			S	0
1,6-Dichlorohexane	19													CAS No	2163-00-0	

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Dichloromethane	594	1	2	2	NR	1	0	1	0	0	2	2	C	SD	3	
Dichloromethane	234												CAS No	75-09-2		
2,4-Dichlorophenol	596	3	2	2	NR	3	2	3	2	3	3	3	T	S	3	
2,4-Dichlorophenol	30												CAS No	120-83-2		
2,4-dichlorophenoxyacetic acid, choline salt	2523	2	2	2	NR	1	1	1	0	0	1	2	D	2		
2,4-dichlorophenoxyacetic acid, choline salt	4232												CAS No			
2,4-Dichlorophenoxyacetic acid, diethanolamine salt, solution	599	0	1	1	R	2	NI	1	0	(3)	1	3	(T)	D	3	
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	32												CAS No			
2,4-Dichlorophenoxyacetic acid, dimethylamine salt, 70 % or less solution	600	0	1	1	R	3	NI	1	0	(3)	1	3	(T)	D	3	
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution (70% or less)	33												CAS No			
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt soln.	602	0	NI	0	R	2	NI	1	0	(3)	(1)	3	(T)	D	3	
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	34												CAS No			
1,1-Dichloropropane	605	2	1	1	NR	2	1	0	0	1	1	1	SD	1		
1,1-Dichloropropane	5												CAS No	78-99-9		
1,2-Dichloropropane	606	2	1	1	NR	2	0	1	0	2	2	2	SD	2		
1,2-Dichloropropane	9												CAS No	78-87-5		
1,3-Dichloropropane	607	2	1	1	NR	2	1	0	NI	NI	NI	NI	SD	NI		
1,3-Dichloropropane	12												CAS No	142-28-9		
Dichloropropane and dichloropropene, mixture	608	(2)	(1)	(1)	(NR)	(4)	(1)	2	1	2	3	3	CSs	SD	3	
Dichloropropene/Dichloropropane mixtures	235												CAS No	8003-19-8		
1,3-Dichloropropene	612	1	NI	1	NR	4	1	2	1	2	3	3	CSs	SD	3	
1,3-Dichloropropene	13												CAS No	542-75-6		
2,2-Dichloropropionic acid	609	2	2	2	NR	2	NI	1	0	(3)	3	3	D	3		
2,2-Dichloropropionic acid	28												CAS No	75-99-0		
Di-(2-chloro-iso-propyl) ether	615	2	2	2	NR	2	NI	2	0	2	0	2	SD	2		
2,2'-Dichloroisopropyl ether	25												CAS No	108-60-1		
Dicyclopentadiene(80-90%)/Co-dimers(10-20%), mixtures	2389	2	3	3	NR	3	0	2	0	3	2	2	AR	FED	3	
Dicyclopentadiene, Resin Grade, 81-89%	3559												CAS No			
Diethanolamine	620	0	NI	0	R	1	0	1	0	0	2	3	T	D	3	
Diethanolamine	236												CAS No	111-42-2		

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Diethylamine	621	0	NI	0	R	2	NI	1	2	3	3C	3		DE	3	
Diethylamine	240										CAS No	109-89-7				
2,6-Diethylaniline	1437	3	3	3	NR	2	NI	1	1	(2)	1	2		FD	2	
2,6-Diethylaniline	35										CAS No	579-66-8				
Diethyl benzene (mixed isomers)	624	4	4	4	NR	3	NI	0	(0)	(2)	2	1		F	2	
Diethylbenzene	242										CAS No	25340-17-4				
Di-(2-ethylbutyl) phthalate	625	5	NI	5	R	0	2	0	0	(1)	1	(1)	R	Fp	3	
Di-(2-ethylbutyl) phthalate	2750										CAS No	84-75-3				
Diethylene glycol	628	0	NI	0	R	0	0	1	0	2	1	1		D	2	
Diethylene glycol	243										CAS No	111-46-6				
Diethylene glycol di-n-butyl ether	629	2	NI	2	NI	1	NI	0	0	(1)	1	1		FD	1	
Diethylene glycol dibutyl ether	244										CAS No	112-73-2				
Diethylene glycol diethyl ether	630	0	NI	0	NR	0	NI	1	0	(2)	(2)	2		D	2	
Diethylene glycol diethyl ether	245										CAS No	112-36-7				
Diethylene glycol initiated polyoxypropylene diamine	2353	0	NI	0	NR	2	NI	0	0	(3)	3B	(3)		D	3	
Diethylene glycol initiated polyoxypropylene diamine	3113										CAS No					
Diethylene glycol initiated polyoxypropylene diamine	2353	0	NI	0	NR	2	NI	0	0	(3)	3B	(3)		D	3	
Polyetheramine	2946										CAS No					
Diethylene glycol phthalate	1438	2	NI	2	NR	1	NI	0	0	(2)	(1)	2		S	2	
Diethylene glycol phthalate	247										CAS No					
Diethylene triamine	638	0	1	1	(R)	2	NI	1	3	3	3A	3	Ss	FD	3	
Diethylenetriamine	248										CAS No	111-40-0				
Diethylenetriamine pentaacetic acid, pentapotassium salt solution (40%) (**)	2466	1	NI	1	NR	2	NI	NI	NI	NI	NI	NI		D	NI	
Diethylenetriamine pentaacetic acid, pentapotassium salt (40% solution)	3929										CAS No					
Diethylenetriamine pentaacetic acid, pentasodium salt (40% solution in water)	2076	0	NI	0	NR	0	NI	0	(0)	(0)	0	0		D	0	
Diethylenetriaminepentaacetic acid, pentasodium salt solution	249										CAS No					
Diethylenetriamine pentamethylene phosphonic acid, pentasodium salt solution (47 %) (**)	2467	0	NI	0	R	2	NI	NI	NI	NI	NI	NI		D	NI	
Diethylenetriamine pentamethylene phosphonic acid, pentasodium salt solution	3930										CAS No					
Diethyl ethanolamine	622	0	NI	0	NR	3	NI	1	1	2	3	3		D	3	
Diethylaminoethanol	241										CAS No	100-37-8				

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Diethyl ether	640	0	1	1	NR	0	NI	1	0	0	1	1		DE	2	
Diethyl ether	237									CAS No	60-29-7					
Di-(2-ethylhexyl) adipate	641	0	2	2	R	4	2	0	0	0	1	1	R	Fp	3	
Di-(2-ethylhexyl) adipate	222									CAS No	103-23-1					
Di-(2-ethylhexyl) phosphoric acid	643	(2)	1	1	NR	2	NI	0	1	(2)	2	2		Fp	2	
Di-(2-ethylhexyl) phosphoric acid	223									CAS No	298-07-7					
Di-(2-ethylhexyl) phthalate	642	0	4	4	R	0	0	0	0	1	1	1	R	Fp	3	
Di-(2-ethylhexyl) phthalate	2751									CAS No	117-81-7					
Diethyl phthalate	648	3	3	3	R	2	0	0	0	(1)	1	1		S	1	
Diethyl phthalate	238									CAS No	84-66-2					
Diethyl sulphate	649	1	NI	1	R	(2)	NI	1	2	3	2	3	CM	SD	3	
Diethyl sulphate	239									CAS No	64-67-5					
Diglycidyl ether of Bisphenol A	653	3	NI	3	NR	4	NI	0	0	(2)	1	2	Ss	S	2	
Diglycidyl ether of bisphenol A	250									CAS No	1675-54-3					
Diglycidyl ether of Bisphenol F	728	0	NI	0	NR	3	NI	0	(0)	(2)	1	(2)	SsR	S	3	
Diglycidyl ether of bisphenol F	251									CAS No	55492-52-9					
Diheptyl phthalate	655	0	(4)	(4)	R	0	NI	0	0	(1)	1	1		Fp	3	
Diheptyl phthalate	252									CAS No	3648-21-3					
Di-n-hexyl adipate	656	5	NI	5	(NR)	5	0	0	0	(1)	0	1		FE	1	
Di-n-hexyl adipate	224									CAS No	110-33-8					
Di-hexyl phthalate	2125	5	NI	5	R	0	2	0	0	(1)	1	1	R	Fp	3	
Dihexyl phthalate	253									CAS No	84-75-3					
1,4-Dihydro-9,10-dihydroxy anthracene disodium salt (soln.)	657	1	NI	1	NI	1	NI	0	NI	NI	NI	NI		D	NI	
1,4-Dihydro-9,10-dihydroxyanthracene, disodium salt solution	15									CAS No						
Diisobutene	575	4	4	4	NR	3	NI	0	0	0	1	0		FE	2	
Diisobutylene	257									CAS No	11071-47-9					
Diisobutylamine	576	(2)	NI	(2)	(R)	(3)	NI	2	(2)	2	(3)	(3)		FED	3	
Diisobutylamine	256									CAS No	110-96-3					
Diisobutyl ketone	579	3	NI	3	R	2	NI	0	0	2	2	2		F	2	
Diisobutyl ketone	254									CAS No	108-83-8					

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Diisobutyl phthalate	581	4	(4)	4	R	(4)	1	0	0	1	0	0	R	S	3	
Diisobutyl phthalate	255									CAS No	84-69-5					
Diisodecyl phthalate	619	0	0	0	(R)	0	(0)	0	0	(1)	0	1		Fp	2	
Diisodecyl phthalate	3119									CAS No	26761-40-0					
Diisoheptyl phthalate	2391	0	(4)	(4)	R	0	0	0	0	(1)	1	1	R	Fp	3	
Diisoheptyl phthalate	3561									CAS No						
Diisononyl adipate	690	0	NI	0	R	0	0	0	0	(1)	1	1		Fp	2	
Diisononyl adipate	258									CAS No	33703-08-1					
Diisononyl phthalate	691	0	0	0	R	0	0	0	0	(0)	0	0		Fp	2	
Diisononyl phthalate	3120									CAS No						
Diisooctyl phthalate	693	0	4	4	(R)	0	0	0	0	(1)	1	0		Fp	2	
Diisooctyl phthalate	259									CAS No	27554-26-3					
Diisopropanolamine	703	0	NI	0	NR	1	NI	0	0	0	2	3		FD	3	
Diisopropanolamine	260									CAS No	110-97-4					
Diisopropylamine	705	1	NI	1	NR	2	0	1	1	2	3	3		ED	3	
Diisopropylamine	261									CAS No	108-18-9					
Diisopropyl benzene (mixed isomers)	2220	5	4	4	NR	4	NI	0	0	2	2	1		(T)	F	2
Diisopropylbenzene (all isomers)	262									CAS No						
1,3-Diisopropylbenzene	706	5	4	4	NR	4	NI	0	0	2	2	1		F	2	
1,3-Diisopropyl benzene	2626									CAS No	25321-09-9					
Diisopropyl ether	711	1	NI	1	NR	2	NI	0	0	0	1	2		E	2	
Isopropyl ether	406									CAS No	108-20-3					
Diisopropylnaphthalene, mixed isomers	712	5	4	4	NR	3	NI	0	0	(1)	1	1		Fp	2	
Diisopropylnaphthalene	263									CAS No	38640-62-9					
Dimethyl acetamide	658	0	NI	0	R	1	NI	0	0	2	1	2		D	2	
N,N-Dimethylacetamide	2730									CAS No	127-19-5					
Dimethyl acetamide	658	0	NI	0	R	1	NI	0	0	2	1	2		D	2	
N,N-Dimethylacetamide solution (40% or less)	466									CAS No	127-19-5					
Dimethyl adipate	659	1	NI	1	(R)	4	NI	0	0	(0)	1	1		SD	2	
Dimethyl adipate	264									CAS No	627-93-0					

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Dimethylamine (40-50% aq.sol.)	661	0	NI	0	R	3	0	2	0	2	3B	3	Ss	NT	DE	3
Dimethylamine solution (greater than 45% but not greater than 55%)	271									CAS No	124-40-3					
Dimethylamine (40-50% aq.sol.)	661	0	NI	0	R	3	0	2	0	2	3B	3	Ss	NT	DE	3
Dimethylamine solution (greater than 55% but not greater than 65%)	272									CAS No	124-40-3					
Dimethylamine (40-50% aq.sol.)	661	0	NI	0	R	3	0	2	0	2	3B	3	Ss	NT	DE	3
Dimethylamine solution (45% or less)	270									CAS No	124-40-3					
N,N-Dimethyl cyclohexylamine	665	2	NI	2	NR	2	NI	1	2	3	3C	3		FD		3
N,N-Dimethylcyclohexylamine	467									CAS No	98-94-2					
Dimethyl disulphide	1616	1	NI	1	NR	3	2	2	0	2	1	1		SD		2
Dimethyl disulphide	2504									CAS No	624-92-0					
N,N-Dimethyldodecylamine	2126	3	NI	3	R	4	NI	1	(1)	(3)	3	3		F		3
N,N-Dimethyldodecylamine	468									CAS No	112-18-5					
Dimethylethanolamine	667	0	NI	0	R	2	NI	1	1	2	3	3		D		3
Dimethylethanolamine	273									CAS No	108-01-0					
Dimethyl formamide	676	0	0	0	R	1	0	0	1	2	1	2	R	D		3
Dimethylformamide	274									CAS No	68-12-2					
Dimethyl glutarate	670	0	NI	0	R	3	NI	0	0	2	3	2	A	SD		3
Dimethyl glutarate	265									CAS No	26717-67-9					
Dimethyl hydrogen phosphite	673	0	NI	0	NR	2	NI	1	0	0	1	1		D		1
Dimethyl hydrogen phosphite	266									CAS No	868-89-9					
2,2-Dimethyloctanoic acid	675	3	NI	3	R	4	1	0	0	(2)	2	2		Fp		2
Dimethyl octanoic acid	267									CAS No	29662-90-6					
Dimethyl phthalate	678	2	2	2	R	2	0	0	0	(1)	0	1		SD		1
Dimethyl phthalate	268									CAS No	131-11-3					
2,2-Dimethylpropane-1,3-diol	679	0	0	0	NR	0	0	0	0	0	2	2		FD		2
2,2-Dimethylpropane-1,3-diol (molten or solution)	29									CAS No	126-30-7					
Dimethyl succinate	681	0	NI	0	NI	2	NI	0	0	0	0	2		SD		2
Dimethyl succinate	269									CAS No	106-65-0					
Dinitrotoluene	688	2	2	2	NR	4	2	2	(2)	(2)	1	0	CMR	S		3
Dinitrotoluene (molten)	276									CAS No	25321-14-6					

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Dinonyl phthalate	689	0	NI	0	R	0	0	0	0	(1)	1	1		Fp	2	
Dinonyl phthalate	2993									CAS No	84-76-4					
Di-n-octyl phthalate	692	0	(4)	(4)	(R)	0	0	0	0	(1)	1	(1)		Fp	2	
Diocetyl phthalate	277									CAS No	117-84-0					
1,4-Dioxane	682	0	0	0	NR	0	0	0	0	0	0	2	C	D	3	
1,4-Dioxane	16									CAS No	123-91-1					
Dipentene	686	4	NI	4	NR	2	NI	0	0	(2)	2	2	Ss	F	3	
Dipentene	278									CAS No	138-86-3					
Diphenyl	694	3	4	4	R	4	1	0	0	(1)	0	1		S	1	
Diphenyl	279									CAS No	92-52-4					
Diphenylamine (molten)	2186	3	3	3	NR	3	1	0	0	(1)	1	1		S	1	
Diphenylamine (molten)	285									CAS No						
Diphenylamine, reaction product with 2,4,4-trimethylpentene	1500	NI	1	1	NR	3	NI	0	0	(1)	1	1		Fp	2	
Diphenylamine, reaction product with 2,2,4-Trimethylpentene	286									CAS No						
Diphenylamines, alkylated	1770	5	NI	5	NR	(3)	NI	0	0	(1)	(1)	(1)		F	2	
Diphenylamines, alkylated	287									CAS No						
Diphenyl/Diphenyl ether (mixtures)	698	NI	NI	4	NR	4	1	0	0	(1)	1	1		(T)	S	1
Diphenyl/Diphenyl ether mixtures	283									CAS No	8004-13-5					
Diphenyl ether	699	4	4	4	NR	4	NI	0	0	0	1	1		T	S	1
Diphenyl ether	281									CAS No	101-84-8					
Diphenyl ether/ Biphenyl phenyl ether mixtures	702	5	NI	5	NR	4	NI	0	0	0	1	1		(T)	S	1
Diphenyl ether/Diphenyl phenyl ether mixture	282									CAS No						
Diphenylmethane-4,4'-diisocyanate (#)	700	5	2	2	NR	0	0	0	0	3	2	2	SsSr	S	3	
Diphenylmethane diisocyanate	288									CAS No	101-68-8					
Diphenylopropane-epichlorohydrin resins	2237	3	NI	3	NR	4	NI	0	0	(2)	1	2		S	2	
Diphenylopropane-epichlorohydrin resins	290									CAS No						
Di-n-propylamine	704	1	NI	1	NR	3	NI	2	2	2	3C	3		FED	3	
Di-n-propylamine	225									CAS No	142-84-7					
Dipropylene glycol	707	0	1	1	R	0	NI	0	0	0	0	1		D	1	
Dipropylene glycol	291									CAS No	25265-71-8					

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Dipropylene glycol dibenzoate	708	3	NI	3	R	3	NI	0	0	0	0	0	0	S	0	
Dipropylene glycol dibenzoate	2431													CAS No	94-51-9	
Di-n-propyl phthalate	713	3	NI	3	(R)	3	NI	(0)	(0)	(1)	(1)	(1)	R	S	3	
Di-n-propyl phthalate	2752													CAS No	131-16-8	
Distilled Resin Oil, DRO	2299	(3)	NI	(3)	(NR)	(3)	NI	0	0	(2)	2	1	MN	FE	3	
Resin oil, distilled	2958													CAS No		
Dithiocarbamate ester (C7-C35)	2185	NI	2	2	NR	4	NI	0	0	(1)	1	1		S	1	
Dithiocarbamate ester (C7-C35)	2371													CAS No		
Ditridecyl adipate	2351	0	NI	0	NR	0	NI	0	0	(2)	2	1		Fp	2	
Ditridecyl adipate	293													CAS No		
Ditridecyl phthalate	714	0	(0)	0	NR	0	(0)	0	0	(1)	1	(1)		Fp	2	
Ditridecyl phthalate	2994													CAS No	119-06-2	
Diundecyl phthalate	715	0	(0)	0	NR	0	0	0	0	(1)	1	1		Fp	2	
Diundecyl phthalate	294													CAS No	3648-20-2	
Dodecane	718	5	NI	5	(R)	0	NI	0	0	(1)	(1)	(0)		Fp	2	
Dodecane (all isomers)	295													CAS No	112-40-3	
tert-Dodecanethiol	2233	5	4	4	NR	0	0	0	0	(2)	2	1	Ss	F	3	
tert-Dodecanethiol	2418													CAS No		
1-Dodecanol	719	5	2	2	R	4	1	0	0	(1)	1	(1)		Fp	2	
Dodecyl alcohol	298													CAS No	112-53-8	
1-Dodecene (#)	2473	5	NI	5	R	0	NI	0	0	1	1	(0)	A	F	3	
1-Dodecene	3990													CAS No	112-41-4	
Dodecene (all isomers) (#)	720	5	NI	5	NR	4	NI	0	0	1	1	0	A	F	3	
Dodecene (all isomers)	296													CAS No		
2-Dodecenyl succinic acid, dipotassium salt, solution	727	4	NI	4	NR	1	NI	(0)	(0)	NI	NI	NI		D	NI	
Dodecenylsuccinic acid, dipotassium salt solution	297													CAS No	57195-28-5	
Dodecylamine/Tetradecylamine mixture	721	3	NI	3	R	4	NI	1	0	(3)	3	3		F	3	
Dodecylamine/Tetradecylamine mixture	303													CAS No		
Dodecyl benzene	126	0	NI	0	NR	0	3	0	0	(2)	(2)	(1)		F	2	
Dodecylbenzene	304													CAS No	123-01-3	

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Dodecyl benzene sulphonic acid (contains 1.5% Sulphuric acid)	1739	NI	NI	3	R	3	1	1	(1)	(2)	(1)	(1)		D	2	
Alkyl (C11-C17) benzene sulphonic acid	101												CAS No			
Dodecyl diphenyl oxide disulphonate (solns.)	723	(5)	NI	5	NR	4	1	1	0	(3)	1	3		D	3	
Dodecyl diphenyl ether disulphonate solution	299												CAS No			
Dodecyl hydroxypropyl sulphide (LOA)	1861	5	NI	5	NI	4	NI	0	0	(0)	0	0		FD	0	
Dodecyl hydroxypropyl sulphide	2252												CAS No			
n-Dodecyl mercaptan	2462	5	3	3	NR	5	NI	0	0	(3)	3	(3)	Ss	F	3	
n-Dodecyl mercaptan	3743												CAS No			
Dodecyl/octadecyl methacrylate (mixtures)	2116	(5)	NI	(5)	(NR)	(0)	NI	0	0	(1)	1	(1)		Fp	2	
Dodecyl/Octadecyl methacrylate mixture	1717												CAS No			
Dodecyl/pentadecyl methacrylate (mixture)	724	(5)	NI	(5)	(NR)	(0)	NI	0	(0)	(1)	(1)	(1)		Fp	2	
Dodecyl/Pentadecyl methacrylate mixture	302												CAS No			
Dodecyl phenol	725	0	4	4	NI	4	(3)	0	0	(3)	3	2	R	Fp	3	
Dodecyl phenol	301												CAS No	27193-86-8		
Dodecyl-, Tetradecyl-, Hexadecyl-dimethylamine mixture	2248	3	NI	3	R	5	2	1	(1)	(3)	3C	3		F	3	
Alkyl (C12+) dimethylamine	2485												CAS No			
Dodecylylene	1763	0	NI	0	NI	0	NI	0	0	(1)	1	1		Fp	2	
Dodecyl Xylene	306												CAS No			
Epichlorohydrin	731	0	0	0	R	2	NI	2	2	2	3	3A	3	CSs	D	3
Epichlorohydrin	309												CAS No	106-89-8		
Ethanol	732	0	NI	0	R	0	NI	0	0	0	1	2		D	2	
Ethyl alcohol	315												CAS No	64-17-5		
Ethanolamine	733	0	NI	0	R	2	0	1	1	1	3	3A	3		D	3
Ethanolamine	311												CAS No	141-43-5		
Ethanoltriazine (aqueous solution)	2411	(0)	NI	(0)	R	3	NI	1	0	4	0	2	Ss	D	3	
1,3,5-Hexahydrotriethanol-1,3,5-triazine solution	3687												CAS No	4719-04-4		
Ethoxylated long chain (>C16)alkyoxyalkanamine (LOA)	2103	5	NI	5	NR	1	NI	0	0	(3)	3	(3)		Fp	3	
Ethoxylated long chain (C16+) alkyloxyalkylamine	2203												CAS No			
Ethoxylated tallow amine (>95%)	2313	0	NI	0	NR	4	NI	1	(1)	3	2	3	Ss	Fp	3	
Ethoxylated tallow amine (> 95%)	2959												CAS No			

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Ethoxylated tallow amine, glycol mixture	2252	2	NI	2	NR	6	NI	1	0	3	2	3		D	3	
Ethoxylated tallow amine, glycol mixture	2476												CAS No			
Ethyl acetate	735	0	2	2	R	1	0	0	0	1	0	1		DE	2	
Ethyl acetate	312												CAS No	141-78-6		
Ethyl acetoacetate	736	0	0	0	R	1	NI	0	0	(1)	1	1		D	1	
Ethyl acetoacetate	313												CAS No	141-97-9		
Ethyl acrylate	734	1	NI	1	R	3	1	1	2	2	2	2	CSs	T	ED	3
Ethyl acrylate	314												CAS No	140-88-5		
Ethylamine	1016	0	NI	0	R	2	NI	2	2	1	3	3		GD	3	
Ethylamine	322												CAS No	75-04-7		
Ethylamine solutions (72% or less)	2219	NI	NI	0	R	2	NI	2	2	1	3	3		DE	3	
Ethylamine solutions (72% or less)	323												CAS No			
Ethyl amyl ketone	1784	2	NI	2	NI	2	NI	0	0	(2)	2	NI		FD	2	
Ethyl amyl ketone	316												CAS No	106-68-3		
Ethylbenzene	740	3	2	2	R	3	(1)	0	0	0	2	2	T	FE	3	
Ethylbenzene	324												CAS No	100-41-4		
N-Ethyl butylamine	745	1	NI	1	NI	NI	NI	1	1	2	3	3		FED	3	
N-Ethylbutylamine	477												CAS No	13360-63-9		
Ethyl tert-butyl ether (#)	2085	1	NI	1	NR	2	0	0	0	(1)	1	0		E	1	
Ethyl tert-butyl ether	320												CAS No	637-92-3		
Ethyl butyrate	748	1	NI	1	NI	2	NI	0	0	(2)	2	NI		FED	2	
Ethyl butyrate	317												CAS No	105-54-4		
Ethyl cyclohexane	751	4	4	4	NR	3	NI	(0)	(0)	(1)	(1)	(1)		FE	2	
Ethylocyclohexane	325												CAS No	1678-91-7		
N-Ethyl cyclohexylamine	752	2	NI	2	NI	(3)	NI	1	2	2	3	3		FED	3	
N-Ethylcyclohexylamine	478												CAS No	5459-93-8		
S-Ethyl dipropylthiocarbamate	2081	3	2	2	NI	3	NI	1	1	2	2	(2)	N	F	3	
S-Ethyl dipropylthiocarbamate	2302												CAS No	759-94-4		
Ethylene carbonate	755	0	NI	0	R	0	NI	0	0	(2)	1	2		SD	2	
Ethylene carbonate	326												CAS No	96-49-1		

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Ethylene chlorohydrin	756	0	0	0	R	3	NI	2	3	4	2	3		D	3	
Ethylene chlorohydrin	327												CAS No	107-07-3		
Ethylene cyanohydrin	757	0	0	0	NI	2	NI	1	0	(2)	1	2		D	2	
Ethylene cyanohydrin	328												CAS No	109-78-4		
Ethylene diamine	758	0	1	1	R	3	1	1	2	1	3	3	SsSr	D	3	
Ethylenediamine	343												CAS No	107-15-3		
Ethylene diamine, tetra acetic acid, di- and tetra-sodium salt	759	0	NI	0	NR	2	0	1	(1)	(2)	1	2		D	2	
Ethylenediaminetetraacetic acid, tetrasodium salt solution	344												CAS No	64-02-8		
Ethylene dibromide	760	1	2	2	NR	3	NI	2	2	2	3	3	CRT	SD	3	
Ethylene dibromide	329												CAS No	106-93-4		
Ethylene glycol	761	0	NI	0	R	0	NI	1	(1)	(1)	0	0		D	1	
Ethylene glycol	331												CAS No	107-21-1		
Ethylene glycol acrylate	869	0	NI	0	R	4	NI	1	3	3	3	3	MSs	D	3	
2-Hydroxyethyl acrylate	51												CAS No	818-61-1		
Ethylene glycol butyl ether acetate (#)	764	1	NI	1	R	2	NI	1	1	(1)	1	1		FD	1	
Ethylene glycol butyl ether acetate	334												CAS No	112-07-2		
Ethylene glycol diacetate	765	0	NI	0	NI	2	NI	0	0	(1)	1	NI		D	1	
Ethylene glycol diacetate	335												CAS No	111-55-7		
Ethylene glycol ethyl ether acetate	767	0	NI	0	R	2	0	1	0	1	1	1	R	D	3	
2-Ethoxyethyl acetate	41												CAS No	111-15-9		
Ethylene glycol methyl butyl ether	772	1	NI	1	NI	1	NI	NI	NI	NI	NI	NI		D	NI	
Ethylene glycol methyl butyl ether	336												CAS No	13343-98-1		
Ethylene glycol methyl ether acetate	773	0	NI	0	R	2	NI	0	0	(0)	(1)	1	R	D	3	
Ethylene glycol methyl ether acetate	337												CAS No	110-49-6		
Ethylene glycol monoacetate	762	0	NI	0	R	2	NI	0	0	(3)	NI	(3)		D	3	
Ethylene glycol acetate	333												CAS No	542-59-6		
Ethylene glycol monoalkyl ethers	2268	0	NI	0	R	2	NI	1	2	2	1	2		D	2	
Ethylene glycol monoalkyl ethers	338												CAS No			
Ethylene glycol monoethyl ether	766	0	NI	0	R	0	0	0	0	1	2	2		D	3	
2-Ethoxyethanol	40												CAS No	110-80-5		

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Ethylene glycol phenyl ether	775	1	NI	1	R	1	0	1	0	0	1	2		SD	2	
Ethylene glycol phenyl ether	339									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)		SD	2	
Ethylene glycol phenyl ether/Diethylene glycol phenyl ether mixture	340									CAS No						
Ethylene glycol (>75%)/Sodium alkyl carboxylates/borax mixture (#)	2477	NI	(1)	(1)	R	1	NI	1	(1)	(2)	(1)	(1)	R	D	3	
Ethylene glycol (>75%)/Sodium alkyl carboxylates/borax mixture	4006									CAS No						
Ethylene glycol (>85%)/Sodium alkyl carboxylates mixture (#)	2475	NI	(1)	(1)	R	1	NI	1	(1)	(1)	0	0		D	1	
Ethylene glycol (>85%)/Sodium alkyl carboxylates mixture	4005									CAS No						
Ethylene oxide	77	NI	NI	NI	NI	NI	NI	1	(1)	3	3	3	CMR	GD	3	
Ethylene oxide	2744									CAS No	75-21-8					
Ethylene-propylene copolymer	1508	NI	NI	NI	NI	NI	NI	(0)	(0)	(0)	(0)	(0)		NI	0	
Propylene-Butylene copolymer	633									CAS No						
Ethylene vinyl acetate copolymer (emulsion)	779	0	1	1	NR	0	0	0	(0)	(2)	2	0		S	2	
Ethylene-vinyl acetate copolymer (emulsion)	342									CAS No						
Ethyl 3-ethoxypropionate	1439	1	NI	1	NR	2	NI	0	0	0	1	1		FD	1	
Ethyl-3-ethoxypropionate	321									CAS No	763-69-9					
2-Ethylhexanoic acid	776	2	NI	2	R	2	NI	0	0	(2)	2	2		FD	3	
2-Ethylhexanoic acid	45									CAS No	149-57-5					
2-Ethylhexyl acrylate	782	3	NI	3	R	2	NI	0	0	(2)	2	2	Ss	F	3	
2-Ethylhexyl acrylate	46									CAS No	103-11-7					
2-Ethylhexyl esters of fatty acids	2221	0	NI	0	R	1	NI	0	(0)	(0)	1	0		F	1	
	2578									CAS No						
2-Ethyl-2-(hydroxymethyl)propane-1,3-diol C8-C10 ester (LOA)	2054	0	NI	0	R	0	NI	0	(0)	(0)	0	(0)		Fp	2	
2-Ethyl-2-(hydroxymethyl) propane-1,3-diol (C8-C10) ester	42									CAS No						
5-Ethylidene-2-norbornene	783	3	3	3	NR	3	0	0	0	2	1	2		FE	2	
Ethylidene norbornene	345									CAS No	16219-75-3					
Ethyl isoamyl ketone	737	NI	NI	NI	NI	NI	NI	0	0	(1)	1	(2)		FD	2	
Ethyl isoamyl ketone	2618									CAS No	541-85-5					
Ethyl methacrylate	785	1	NI	1	R	2	0	0	0	0	(2)	(2)	Ss	FE	2	
Ethyl methacrylate	318									CAS No	97-63-2					

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N-Ethyl-2-methallylamine	2228	0	NI	0	NR	2	NI	3	2	2	3A	3		D	3	
N-Ethylmethylallylamine	2417												CAS No			
o-Ethyl phenol	788	2	NI	2	NI	(2)	NI	1	NI	NI	NI	NI		S	NI	
o-Ethylphenol	535												CAS No	90-00-6		
Ethyl propionate	790	1	NI	1	NI	2	0	0	(1)	(2)	2	2		ED	2	
Ethyl propionate	319												CAS No	105-37-3		
2-Ethyl-3-propylacrolein	791	2	NI	2	R	3	NI	0	0	1	3	3		F	3	
2-Ethyl-3-propylacrolein	43												CAS No	645-62-5		
Ethyl toluene (all isomers)	2297	3	NI	3	NI	(3)	NI	0	0	0	2	2		F	2	
Ethyl toluene	346												CAS No			
Fatty acid methyl esters	2362	0	NI	0	R	2	NI	0	(0)	(2)	2	2		Fp	2	
Fatty acid methyl esters (m)	3125												CAS No			
Fatty acids, essentially linear, C6-C18, 2-ethylhexyl ester	2253	0	NI	0	R	1	NI	0	0	(1)	1	0		Fp	2	
Fatty acid (C8-C16) ethyl hexyl esters	2759												CAS No			
Fatty acids, essentially linear, C6-C18, 2-ethylhexyl ester	2253	0	NI	0	R	1	NI	0	0	(1)	1	0		Fp	2	
Fatty acids, essentially linear (C6-C18) 2-ethylhexyl ester	1914												CAS No			
Fatty acids, linear, C8-C18 saturated with C18 unsaturated	2260	(4)	NI	(4)	R	(4)	(1)	(0)	(0)	(1)	(1)	(1)		Fp	2	
Fatty acids, (C8-C18)	2779												CAS No			
Fatty acids, linear C12+ saturated with C12+ unsaturated	2261	5	0	0	(R)	0	NI	(0)	(0)	(1)	(1)	(1)		Fp	2	
Fatty acids, (C12+)	2780												CAS No			
Fatty acids saturated, C8-C10	2324	0	NI	0	R	4	NI	0	0	(3)	3C	3		Fp	3	
Fatty acids, (C8-C10)	3079												CAS No			
Fatty acids, unsaturated, linear, C16+	2259	0	0	0	R	(0)	NI	0	0	(0)	0	0		Fp	2	
Fatty acids, (C16+)	2778												CAS No			
Fatty alcohols, linear, (C12+)	2326	(5)	(2)	(2)	(R)	(4)	(1)	0	0	(1)	1	1		Fp	2	
Alcohols (C12+), primary, linear	3081												CAS No			
Fatty alcohols, linear, (C16+)	2327	(5)	(2)	(2)	(R)	(0)	(1)	0	0	(1)	1	1		Fp	2	
Alcohols, linear (C16+)	3082												CAS No			
Ferric chloride	339	Inorg	5	5	Inorg	2	0	1	(0)	(3)	2	3		D	3	
Ferric chloride solutions	348												CAS No	7705-08-0		

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Ferric hydroxyethyl ethylene diamine triacetic acid, tri- sodium salt, solution	796	NI	NI	NI	NI	NI	NI	0	0	(1)	(0)	1		D	1	
Ferric hydroxyethylethylenediaminetriacetic acid, trisodium salt solution	349									CAS No						
Ferric nitrate/nitric acid solution	337	Inorg	(5)	(5)	Inorg	(2)	(0)	0	(0)	(3)	3	3		D	3	
Ferric nitrate/Nitric acid solution	350									CAS No						
Fish by-products (fresh)	2499	NI	NI	(0)	NR	1	(0)	(0)	(0)	(0)	(0)	(0)		FD	1	
Fish by-products (fresh) (*)	3893									CAS No						
Fish oil (containing less than 10% free fatty acids)	2316	0	NI	0	R	2	NI	(0)	(0)	(1)	(0)	(1)		Fp	2	
Fish oil	3046									CAS No						
Fish protein concentrate (containing 4% or less formic acid)	2502	NI	NI	(0)	R	1	(0)	(0)	(0)	(0)	(1)	(1)		D	1	
Fish protein concentrate (containing 4% or less formic acid)	4090									CAS No						
Fish silage (containing 3% or less formic acid with antioxidant)	2500	NI	NI	(0)	R	0	(0)	(0)	(0)	(0)	(1)	(1)		FD	1	
Fish silage (containing 3% or less formic acid with antioxidant)	3892									CAS No						
Fish silage protein concentrate (containing 4% or less formic acid)	2487	NI	0	0	R	2	NI	(0)	(0)	(0)	(1)	(1)		D	2	
Fish silage protein concentrate (containing 4% or less formic acid)	4062									CAS No						
Fish solubles	1509	NI	NI	NI	NI	NI	NI	(0)	(0)	(0)	(0)	(0)		NI	NI	
Fish solubles (water-based fish meal extract)	351									CAS No						
Fluorosilicic acid	806	Inorg	0	0	Inorg	2	NI	2	(2)	4	3	3		D	3	
Fluorosilicic acid	2716									CAS No	16961-83-4					
Fluorosilicic acid solution (20-30%)	2240	Inorg	2	2	Inorg	2	0	(1)	(1)	(3)	3B	3	T	D	3	
Fluorosilicic acid solution (20-30%)	353									CAS No						
Formaldehyde (37%-50% solution)	807	0	NI	0	R	2	NI	2	2	3	3	3	CMSs	NT	D	3
Formaldehyde solutions (45% or less)	354									CAS No	50-00-0					
Formaldehyde, polymer with isobutyleneated phenol	2377	NI	NI	NI	NR	NI	NI	NI	NI	NI	NI	NI		Fp	NI	
Formaldehyde, polymer with isobutyleneated phenol	1203									CAS No						
Formamide	808	0	NI	0	NR	1	NI	0	0	1	1	2	R	D	3	
Formamide	355									CAS No	75-12-7					
Formic acid	809	0	NI	0	R	2	NI	1	(1)	2	3C	3		D	3	
Formic acid (over 85%)	3830									CAS No	64-18-6					
Formic acid	809	0	NI	0	R	2	NI	1	(1)	2	3C	3		D	3	
Formic acid (85% or less acid)	356									CAS No	64-18-6					

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Formic acid mixture (containing up to 18% propionic acid and up to 25% sodium formate)	2408	0	NI	0	R	1	NI	(0)	(0)	(2)	(2)	(2)	(3)		D	3
Formic acid mixture (containing up to 18% propionic acid and up to 25% sodium formate)	3684													CAS No		
Fumaric adduct of rosin (water dispersion)	810	3	NI	3	NR	3	NI	0	(0)	(3)	0	3	Ss		D	3
Fumaric adduct of rosin, water dispersion		357												CAS No	65997-04-8	
Furfural	812	0	NI	0	R	2	1	2	(2)	3	2	2	C		D	3
Furfural		358												CAS No	98-01-1	
Furfuryl alcohol	813	0	NI	0	R	1	NI	2	2	3	2	2			D	2
Furfuryl alcohol		359												CAS No	98-00-0	
Glucitol/glycerol blend propoxylated (containing 10% or more amines)	2441	2	NI	2	NR	1	1	1	0	(2)	(1)	(1)			D	2
Glucitol/glycerol blend propoxylated (containing 10% or more amines)		3919												CAS No		
Glucitol/glycerol blend, propoxylated (containing less than 10% amines)	2368	0	NI	0	NR	1	NI	1	0	(2)	(1)	(1)			SD	2
Glucitol/glycerol blend propoxylated (containing less than 10% amines)		3074												CAS No		
Glycerine	814	0	NI	0	R	0	0	0	0	(1)	0	1			D	1
Glycerine		363												CAS No	56-81-5	
Glycerine (83%)/ Dioxane-dimethanol (17%) mixture	1743	NI	NI	NI	R	1	NI	0	(0)	(1)	(0)	1			D	1
Glycerine (83%), Dioxanediethanol (17%) mixture		364												CAS No		
Glycerol ethoxylated	2360	0	NI	0	R	0	NI	0	0	(0)	0	0			D	0
Glycerol ethoxylated		3123												CAS No		
Glycerol monooleate	1898	0	0	0	R	0	NI	0	(0)	(1)	1	1			Fp	2
Glycerol monooleate		365												CAS No	25496-72-4	
Glycerol propoxylated	2346	0	NI	0	NR	1	NI	1	0	(2)	1	0			D	2
Glycerol propoxylated		3110												CAS No		
Glycerol, propoxylated and ethoxylated	2276	0	NI	0	NR	1	0	0	0	0	0	0			SD	2
Glycerol, propoxylated and ethoxylated		2872												CAS No		
Glycerol/sorbitol blend, propoxylated and ethoxylated	2372	0	NI	0	NR	2	NI	NI	NI	NI	NI	NI			NI	NI
Glycerol/sorbitol blend, propoxylated and ethoxylated		3136												CAS No		
Glycerol/sucrose blend, propoxylated and ethoxylated	2361	0	NI	0	NR	1	NI	0	0	0	0	0			SD	0
Glycerol/sucrose blend propoxylated and ethoxylated		3124												CAS No		
Glyceryl triacetate	816	0	NI	0	R	1	0	1	0	0	0	0			D	1
Glyceryl triacetate		367												CAS No	102-76-1	

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Glycidyl ester of C10 trialkyl acetic acid	441	3	NI	3	NR	3	NI	0	0	(2)	2	1		F	2	
Glycidyl ester of C10 trialkylacetic acid	368												CAS No			
Glycine, Sodium salt, solution	817	0	NI	0	NI	0	NI	0	(0)	(1)	(0)	(1)		D	1	
Glycine, sodium salt solution	369												CAS No	56-40-6		
Glycolic acid	2218	0	0	0	R	1	NI	1	(1)	2	3C	3		D	3	
Glycolic acid solution (70% or less)	2539												CAS No			
Glyoxal solutions (40% or less)	84	0	NI	0	R	1	NI	0	0	2	2	3	MSsSr	D	3	
Glyoxal solution (40% or less)	370												CAS No	107-22-2		
Glyoxylic acid	1535	0	NI	0	R	2	0	0	0	(3)	0	3	Ss	D	3	
Glyoxylic acid solution (50 % or less)	371												CAS No	298-12-4		
Glyphosate solution, without surfactant	1765	0	0	0	NR	3	0	0	0	(3)	0	3		D	3	
Glyphosate solution (not containing surfactant)	2204												CAS No	1071-83-6		
Grape Seed Oil	2442	(0)	NI	(0)	(R)	(0)	(0)	(0)	(0)	(1)	(0)	(1)		Fp	2	
Grape Seed Oil	3643												CAS No	8024-22-4		
Groundnut oil	820	0	NI	0	R	(2)	NI	(0)	(0)	(0)	(0)	0		Fp	2	
Groundnut oil	2769												CAS No	8002-03-7		
Heptane	827	4	NI	4	R	4	NI	0	0	0	(1)	1	A	E	2	
Heptane (all isomers)	372												CAS No	142-82-5		
Heptanoic acid	831	2	NI	2	R	1	NI	0	0	1	3B	(3)		FD	3	
n-Heptanoic acid	479												CAS No	111-14-8		
Heptanol (all isomers)	2223	2	NI	2	R	(2)	NI	0	0	(2)	(1)	(2)		FD	2	
Heptanol (all isomers) (d)	373												CAS No			
1-Heptanol	828	2	NI	2	R	2	0	1	0	2	(2)	(2)		FD	2	
1-Heptanol	2688												CAS No	111-70-6		
Heptene (all isomers)	2225	3	NI	3	NI	2	NI	(0)	(0)	(0)	(2)	(1)		E	2	
Heptene (all isomers)	374												CAS No			
1-Heptene	832	3	NI	3	NI	2	NI	(0)	(0)	(0)	(2)	(1)		E	2	
1-Heptene	2685												CAS No			
Heptyl acetate	833	3	NI	3	(R)	(3)	NI	0	0	(2)	1	2		F	2	
Heptyl acetate	375												CAS No	112-06-1		

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Hexadecyl naphthalene/dihexadecyl naphthalene mixture	2159	0	NI	0	NR	0	NI	0	0	(1)	1	1		Fp	2	
1-Hexadecylnaphthalene / 1,4-bis(hexadecyl)naphthalene mixture	2373									CAS No						
Hexahydro-1,3,5-trimethyl-1,3,5-triazine solution (45% or less)	2489	(2)	NI	(2)	R	3	NI	1	(1)	(3)	3A	3	Ss	D	3	
Hexahydro-1,3,5-trimethyl-1,3,5-triazine solution (45% or less)	4123									CAS No	108-74-7					
Hexamethylene diamine	845	0	NI	0	R	2	NI	1	1	(3)	3A	3	R	D	3	
Hexamethylenediamine solution	380									CAS No	124-09-4					
Hexamethylene diamine	845	0	NI	0	R	2	NI	1	1	(3)	3A	3	R	D	3	
Hexamethylenediamine (molten)	378									CAS No	124-09-4					
Hexamethylene diamine	845	0	NI	0	R	2	NI	1	1	(3)	3A	3	R	D	3	
Hexamethylenediamine	377									CAS No	124-09-4					
Hexamethylene diamine adipate, 50% in water	846	0	NI	0	R	1	NI	0	(0)	(0)	0	0		D	0	
Hexamethylenediamine adipate (50% in water)	379									CAS No	3323-53-3					
Hexamethylene diisocyanate	2142	3	0	0	NR	2	NI	1	2	4	3	3	SsSr	S	3	
Hexamethylene diisocyanate	18									CAS No	822-06-0					
Hexamethylene glycol	847	0	NI	0	R	1	NI	0	0	(1)	0	1		D	1	
Hexamethylene glycol	376									CAS No	629-11-8					
Hexamethyleneimine	848	1	NI	1	NI	2	NI	3	1	2	2	2		FED	2	
Hexamethyleneimine	381									CAS No	111-49-9					
Hexamethylene tetramine (40% solution)	849	0	NI	0	R	0	NI	0	0	(1)	0	1	Ss	D	2	
Hexamethylenetetramine solutions	382									CAS No	100-97-0					
Hexane	850	3	NI	3	R	4	NI	0	0	0	2	2	NA	E	2	
Hexane (all isomers)	383									CAS No	100-54-3					
Hexane	850	3	NI	3	R	4	NI	0	0	0	2	2	NA	E	2	
Hexane	2683									CAS No	100-54-3					
1,6-Hexanediol, distillation overheads	2143	4	NI	4	NR	2	NI	0	0	2	1	2		FED	2	
1,6-Hexanediol, distillation overheads	2641									CAS No						
Hexanoic acid	853	2	NI	2	R	2	NI	0	0	(3)	(3)	3		FD	3	
Hexanoic acid	384									CAS No	142-62-1					
1-Hexanol	854	1	0	0	(R)	2	NI	1	0	(3)	1	3		FD	3	
Hexanol	385									CAS No	111-27-3					

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Hexene (all isomers)	2224	3	NI	3	R	3	NI	(0)	(0)	(1)	(1)	(1)		E	2	
Hexene (all isomers)	386												CAS No			
1-Hexene	855	3	NI	3	R	3	NI	0	0	0	1	1		E	2	
1-Hexene	2681												CAS No	592-41-6		
2-Hexene (mixed isomers)	856	3	NI	3	R	3	NI	(0)	(0)	0	(1)	(1)		E	2	
2-Hexene (mixed isomers)	2682												CAS No			
Hexyl acetate	857	2	NI	2	NI	3	NI	0	0	(1)	1	1		FE	2	
Hexyl acetate	387												CAS No	142-92-7		
sec-Hexyl acetate	858	2	NI	2	NI	3	NI	0	0	0	1	(2)		FED	2	
Methylamyl acetate	456												CAS No	108-84-9		
Hexylene glycol	859	0	NI	0	R	0	0	0	0	(3)	2	3		D	2	
Hexylene glycol	388												CAS No	107-41-5		
Hydrocarbon wax	2278	(5)	NI	(5)	NR	0	0	(0)	(0)	(0)	(0)	CT		Fp	3	
Hydrocarbon wax	741												CAS No			
Hydrochloric acid	864	Inorg	0	0	Inorg	1	NI	1	1	3	3C	3		DE	3	
Hydrochloric acid	389												CAS No	7647-01-0		
Hydrogenated Starch Hydrolysate	2347	0	NI	0	R	0	NI	0	0	(0)	0	0		D	0	
Hydrogenated starch hydrolysate	3077												CAS No			
Hydrogen peroxide, more than 60%	867	Inorg	0	0	Inorg	3	NI	1	0	2	3	3		D	3	
Hydrogen peroxide solutions (over 60% but not over 70% by mass)	390												CAS No	7722-84-1		
Hydrogen peroxide, more than 60%	867	Inorg	0	0	Inorg	3	NI	1	0	2	3	3		D	3	
Hydrogen peroxide, more than 60%	2689												CAS No	7722-84-1		
Hydrogen peroxide, more than 8% but not more than 60%	2231	Inorg	0	0	Inorg	3	NI	1	0	(2)	3	3		D	3	
Hydrogen peroxide solutions (over 8% but not over 60% by mass)	391												CAS No			
Hydrogen peroxide, more than 8% but not more than 60%	2231	Inorg	0	0	Inorg	3	NI	1	0	(2)	3	3		D	3	
Hydrogen peroxide, more than 8% but not more than 60%	2690												CAS No			
N-(2-Hydroxyethyl) ethylene diamine triacetic acid, trisodium salt (solution)	870	0	NI	0	NI	1	NI	0	0	(1)	1	1	R	D	3	
N-(Hydroxyethyl)ethylenediaminetriacetic acid, trisodium salt solution	470												CAS No	150-30-0		
[(2-hydroxyethyl)imino]dimethylenebisphosphonic acid, sodium salt	2493	0	NI	0	NR	1	NI	0	0	(0)	0	1		D	1	
	4127												CAS No	22036-78-8		

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2-Hydroxy-4-(methylthio) butanoic acid	871	1	NI	1	R	1	NI	0	0	(3)	1	3		D	3	
2-Hydroxy-4-(methylthio)butanoic acid	49									CAS No	583-91-5					
Icosa(oxypropane-2,3-diyl)s	2092	NI	NI	NI	NI	NI	NI	0	(0)	(2)	2	(2)		Fp	2	
Icosa(oxypropane-2,3-diyl)s	2691									CAS No						
Icosa(oxypropane-2,3-diyl)s	2092	NI	NI	NI	NI	NI	NI	0	(0)	(2)	2	(2)		Fp	2	
Icosa(oxypropane-2,3-diyl)s	392									CAS No						
Illipe oil (containing less than 10% free fatty acids)	2304	(0)	NI	(0)	(R)	(0)	NI	(0)	(0)	(0)	(0)	(0)		Fp	2	
Illipe oil	3034									CAS No						
Imidazolium compounds, 1-benzyl-4,5-dihydro-1-(hydroxyethyl)-2-norcoco alkyl, chlorides	2505	(0)	NI	(0)	NR	4	NI	NI	NI	NI	(2)	(3)		Fp	3	
Imidazolium compounds, 1-benzyl-4,5-dihydro-1-(hydroxyethyl)-2-norcoco alkyl, chlorides	4157									CAS No	61791-52-4					
Interesterified Mixed Vegetable Oils	2355	0	NI	0	R	(0)	NI	(0)	(0)	(1)	(1)	(1)		Fp	2	
Interesterified vegetable oils	3115									CAS No						
Isoalkanes (C16-C18)	2526	0	NI	0	R	1	NI	(0)	(0)	(0)	(0)	(0)	A	F	1	
Isoalkanes (C16-C18)	4235									CAS No						
Isobutanol	382	0	NI	0	R	1	0	0	0	1	2	3		D	3	
Isobutyl alcohol	397									CAS No	78-83-1					
Isobutyl formate	405	1	NI	1	NI	1	NI	0	(0)	0	(1)	(2)		E	2	
Isobutyl formate	398									CAS No	542-55-2					
Isobutyl methacrylate	408	2	NI	2	NR	1	NI	0	0	0	2	2	Ss	FED	2	
Isobutyl methacrylate	2673									CAS No	97-86-9					
Isobutyric acid	419	0	NI	0	R	2	NI	2	2	(3)	3	3		E	NI	
Isobutyric acid	2459									CAS No	79-31-2					
Isodecanol	557	3	2	2	R	3	NI	0	0	0	2	1		Fp	2	
Decyl alcohol (all isomers)	219									CAS No	25339-17-7					
Isononanol	1059	3	NI	3	NR	3	1	0	0	(2)	2	2		Fp	2	
Nonyl alcohol (all isomers)	510									CAS No	2430-22-0					
Isononyaldehyde	2300	3	NI	3	NR	(3)	NI	0	0	(2)	2	1		F	2	
Isononyaldehyde	2754									CAS No						
Isooctaldehyde	1071	2	NI	2	NI	3	NI	0	0	(1)	1	1		F	1	
Octyl aldehydes	542									CAS No	63885-09-6					

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Isooctanol	1076	3	NI	3	R	2	0	1	0	(2)	2	(2)		F	2	
iso-Octanol	2675									CAS No	26952-21-6					
Isooctylamine	1081	2	NI	2	NI	3	NI	1	1	3	3	3		FD	3	
2-Ethylhexylamine	48									CAS No	104-75-6					
Isopentene	1113	2	NI	2	NI	2	NI	(0)	(0)	(0)	(0)	(1)		E	2	
iso-Pentene	2677									CAS No	563-45-1					
Isophorone	879	1	1	1	R	2	0	1	1	(2)	1	2		FD	2	
Isophorone	399									CAS No	78-59-1					
Isophorone diamine	880	0	0	0	NR	2	0	1	(1)	(3)	3	3	Ss	D	3	
Isophoronediamine	401									CAS No	2855-13-2					
Isophorone diisocyanate	881	1	NI	1	NR	3	NI	0	0	3	3	3	SsSr	S	3	
Isophorone diisocyanate	400									CAS No	4098-71-9					
Isoprene	882	2	2	2	NR	3	1	0	0	0	1	2	CM	E	3	
Isoprene	402									CAS No	78-79-5					
Isopropanol	1181	0	NI	0	R	0	0	0	0	0	1	2		D	2	
Isopropyl alcohol	405									CAS No	67-63-0					
Isopropanolamine	1182	0	NI	0	R	2	NI	0	1	0	3	3		D	3	
Isopropanolamine	403									CAS No	78-96-6					
Isopropyl acetate	1192	1	NI	1	R	1	NI	0	0	0	1	2		ED	2	
Isopropyl acetate	404									CAS No	108-21-4					
Isopropylamine	1195	0	NI	0	R	2	NI	2	2	1	3	3		DE	3	
Isopropylamine	407									CAS No	75-31-0					
Isopropylamine (70%)	2350	0	NI	0	R	2	NI	2	2	1	3	3		DE	3	
Isopropylamine (70% or less) solution	395									CAS No						
Isopropyl benzene	1197	3	2	2	R	3	NI	0	0	0	2	1		FE	2	
Propylbenzene (all isomers)	623									CAS No	98-82-8					
Isopropyl benzene	1197	3	2	2	R	3	NI	0	0	0	2	1		FE	2	
Isopropylbenzene	2687									CAS No	98-82-8					
Isopropyl cyclohexane	1199	4	NI	4	(NR)	(3)	NI	(0)	(0)	(1)	(0)	(1)		FE	2	
Isopropylcyclohexane	408									CAS No	696-29-7					

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Isopropyltoluenes	549	4	4	4	(NR)	3	NI	0	(0)	1	2	(1)		FE	2	
p-Cymene	552								CAS No	99-87-6						
Isovaleraldehyde	1390	1	NI	1	R	3	NI	0	0	0	2	2		D	2	
Valeraldehyde (all isomers)	731								CAS No	590-86-3						
Jatropha oil	2402	0	NI	(0)	(R)	(2)	NI	(0)	(0)	(0)	(0)	(0)		Fp	2	
Jatropha oil	3637								CAS No							
Kaolin slurry	883	Inorg	NI	0	Inorg	0	NI	0	0	0	0	0		S	0	
Kaolin slurry	409								CAS No	1332-58-7						
Lactic acid	886	0	NI	0	R	1	NI	0	0	(3)	2	3		D	3	
Lactic acid	410								CAS No	50-21-5						
Lactonitrile solution (80% or less)	887	0	NI	0	R	4	NI	3	4	(4)	NI	NI		D	3	
Lactonitrile solution (80% or less)	411								CAS No	78-97-7						
Lard (containing less than 10% free fatty acids)	2317	0	NI	0	R	0	NI	0	(0)	(1)	0	1		Fp	2	
Lard	3047								CAS No							
Latex, ammonia inhibited	889	0	NI	0	NI	(2)	NI	0	0	(1)	0	1		D	1	
Latex, ammonia (1% or less)- inhibited	413								CAS No							
Lauric acid	891	4	NI	4	R	4	1	0	(0)	(2)	1	2		Fp	2	
Lauric acid	415								CAS No	143-07-7						
Lauroamidopropyl betaine solution (#)	2479	(4)	(2)	(2)	R	(4)	(1)	(0)	(0)	(3)	(1)	(3)		D	3	
	4055								CAS No	4292-10-8						
Lauryl methacrylate	893	0	2	2	R	0	0	0	(0)	(1)	1	1		F	1	
Dodecyl methacrylate	300								CAS No	142-90-5						
Lecithin (soybeans)	2146	0	NI	0	R	0	NI	0	0	(0)	0	(0)		SD	0	
Lecithin	417								CAS No							
Lignin sulphonic acid, salt solution	34	0	NI	0	(NR)	(0)	NI	0	(0)	(0)	(0)	(0)		D	0	
Ligninsulphonic acid, sodium salt solution	419								CAS No							
Linear alkyl (C12-16) propoxyamine ethoxylate	2380	3	0	3	NR	4	NI	1	(1)	(3)	3	(3)		D	3	
Alkyl(C12-C16) propoxyamine ethoxylate	3423								CAS No							
Linseed oil (containing less than 4% free fatty acids)	2318	0	NI	0	R	(2)	NI	0	(0)	(1)	0	(1)		Fp	2	
Linseed oil	3048								CAS No							

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Long chain alkaryl polyether (C11-C20) (LOA)	1982	(4)	NI	(4)	NR	3	(1)	0	0	(2)	0	2		Fp	2	
Long-chain alkaryl polyether (C11-C20)	421												CAS No			
Long chain alkaryl sulphonic acid (C16-C60) (LOA)	1966	0	NI	0	(NR)	0	NI	0	0	(2)	(1)	2		Fp	2	
Long-chain alkaryl sulphonic acid (C16-C60)	424												CAS No			
Long-chain alkylphenate/Phenol sulphide mixture	1754	(0)	NI	(0)	(NR)	0	NI	0	0	(2)	2	2		Fp	2	
Long-chain alkylphenate/Phenol sulphide mixture	425												CAS No			
Long chain alkylphenol (C14-C18) (#)	2478	(0)	NI	(0)	NR	(0)	(0)	(0)	(0)	(2)	(2)	(0)		Fp	2	
Long-chain alkylphenol (C14-C18)	4029												CAS No			
Long chain alkylphenol (C18-C30) (#)	2476	(0)	NI	(0)	(NR)	(1)	(0)	(0)	(0)	(2)	(2)	(0)		Fp	2	
Long-chain alkylphenol (C18-C30)	4040												CAS No			
Long-chain polyetheramine in alkyl(C2-C4)benzenes	1457	NI	NI	NI	NR	2	NI	0	0	(2)	2	2		Fp	2	
	422												CAS No			
Lubrizol polyolefin anhydride	1865	0	NI	0	NR	1	NI	0	0	(2)	1	(2)		Fp	2	
Polyolefin anhydride	605												CAS No			
L-Lysine solution (50% or less)	2199	0	0	0	R	1	0	0	0	0	1	NI		D	1	
L-Lysine solution (60% or less)	2306												CAS No			
Magnesium alkyl (long chain) salicylate (overbased) in mineral oil (LOA)	71	(0)	NI	(0)	NR	(2)	NI	0	0	(1)	(1)	(1)	Ss	S	2	
Magnesium long-chain alkyl salicylate (C11+)	429												CAS No			
Magnesium chloride	915	Inorg	0	0	Inorg	1	0	0	0	(0)	0	0		D	0	
Magnesium chloride solution	427												CAS No	7786-30-3		
Magnesium hydroxide slurry	916	Inorg	0	0	Inorg	0	NI	0	0	(1)	(0)	1		S	1	
Magnesium hydroxide slurry	428												CAS No	1309-42-8		
Magnesium lignosulphonate solutions	2356	(0)	NI	(0)	(NR)	(0)	NI	0	0	(0)	(0)	(0)		D	0	
Ligninsulphonic acid, magnesium salt solution	3116												CAS No			
Magnesium long chain alkaryl sulphonate (C11-C50) (LOA)	1967	0	NI	0	NR	0	NI	0	0	(2)	1	2		Fp	2	
Magnesium long-chain alkaryl sulphonate (C11-C50)	430												CAS No			
Maleic acid/allyl sulphonic acid copolymer with phosphonate groups, partial sodium salt (aqueous solution)	2412	0	NI	0	NR	0	NI	(0)	(0)	(0)	(0)	(0)		D	0	
Maleic acid/allyl sulphonic acid copolymer with phosphonate groups, partial sodium salt (aqueous solution)	3688												CAS No			

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Maleic anhydride	921	1	NI	1	R	2	0	1	2	(3)	3	3	SsSr	D	3	
Maleic anhydride	431									CAS No	108-31-6					
Maleic anhydride - sodium allylsulphonate copolymer (aqueous solution)	2410	0	NI	0	NR	1	NI	0	0	(0)	(0)	0		D	0	
Maleic anhydride-sodium allylsulphonate copolymer solution	3686									CAS No						
Maltitol Syrup	2348	0	NI	0	R	0	NI	0	0	(0)	0	0		D	0	
Maltitol solution	3078									CAS No						
Mango kernel oil (containing less than 10% free fatty acids)	2305	(0)	NI	(0)	(R)	(0)	NI	(0)	(0)	(0)	(0)	(0)		Fp	2	
Mango kernel oil	3035									CAS No						
2-Mercaptobenzothiazol	925	2	1	1	NR	4	2	0	0	(0)	0	0	Ss	S	2	
Mercaptobenzothiazol, sodium salt solution	432									CAS No	149-30-4					
2-Mercaptoethanol	2495	0	NI	0	NR	1	NI	2	2	2	2	3	SsT	D	3	
	4129									CAS No	60-24-2					
Mesityl oxide	946	1	NI	1	R	(1)	NI	1	0	2	2	2		D	2	
Mesityl oxide	433									CAS No	141-79-7					
Metam-sodium (ISO)	202	0	NI	0	NR	4	NI	1	2	(2)	2	1	Ss	D	2	
Metam sodium solution	434									CAS No	137-42-8					
Methacrylic acid-alkoxypoly (alkylene oxide) methacrylate co-polymer sodium salt (45% or less solution)	2288	NI	0	0	NR	1	NI	0	(0)	(1)	1	0		D	1	
Methacrylic acid - alkoxypoly (alkylene oxide) methacrylate copolymer, sodium salt aqueous solution (45% or less)	2819									CAS No						
Methacrylic acid, inhibited	948	0	NI	0	R	2	0	1	2	2	3	3		D	3	
Methacrylic acid	435									CAS No	79-41-4					
Methacrylic resin in 1,2 Dichloroethane soln.	2046	1	1	1	NR	2	0	(1)	(0)	(2)	(1)	(2)	C	SD	3	
Methacrylic resin in ethylene dichloride	436									CAS No						
Methacrylonitrile	949	0	NI	0	R	2	0	2	2	3	1	1	Ss	NT	3	
Methacrylonitrile	437									CAS No	126-98-7					
Methanol	951	0	NI	0	R	0	0	(2)	(2)	(2)	2	2	T	DE	3	
Methyl alcohol	441									CAS No	67-56-1					
(2-Methoxymethylethoxy)propanols	2452	0	NI	0	R	0	(0)	0	0	(0)	0	0		D	0	
	3870									CAS No						
Methyl acetate	954	0	NI	0	R	1	NI	0	0	0	1	2		DE	2	
Methyl acetate	438									CAS No	79-20-9					

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Methyl acetoacetate	335	0	NI	0	R	1	NI	0	0	(2)	1	2		D	2	
Methyl acetoacetate	439									CAS No	105-45-3					
Methyl acrylate	955	0	NI	0	R	3	NI	1	1	2	2	3	MSs	D	3	
Methyl acrylate	440									CAS No	96-33-3					
Methylamine solution 42% or less	957	0	NI	0	R	2	NI	2	(2)	3	3	3	M	NT	DE	3
Methylamine solutions (42% or less)	455									CAS No	74-89-5					
Methyl amyl alcohol	958	1	NI	1	R	1	NI	1	0	2	1	3		FED	3	
Methylamyl alcohol	457									CAS No	108-11-2					
Methyl amyl ketone	959	1	NI	1	NI	1	NI	1	0	0	1	1		FED	2	
Methyl amyl ketone	442									CAS No	110-43-0					
N-Methyl aniline	961	1	NI	1	(NR)	3	1	1	1	(2)	(1)	1		FD	2	
N-Methylaniline	3107									CAS No	100-61-8					
alpha-Methylbenzyl alcohol with acetophenone (15% or less)	2399	1	NI	1	(R)	(1)	NI	(1)	(0)	(3)	(2)	(3)	R	Fp	3	
alpha-Methylbenzyl alcohol with acetophenone (15% or less)	3634									CAS No	98-85-1					
2-Methyl-2-butanol	964	1	1	1	(R)	(1)	0	1	1	1	3	2		D	3	
tert-Amyl alcohol	685									CAS No	75-85-4					
3-Methyl-1-butanol	965	1	1	1	(R)	1	0	1	0	(2)	2	2		FED	2	
Isoamyl alcohol	396									CAS No	123-51-3					
3-Methyl-1-butanol	965	1	1	1	(R)	1	0	1	0	(2)	2	2		FED	2	
Amyl alcohol, primary	126									CAS No	123-51-3					
Methyl butenol	967	0	NI	0	R	2	NI	1	0	(2)	2	2		D	2	
Methylbutenol	458									CAS No	556-82-1					
Methyl tert-butyl ether	969	1	NI	1	NR	1	0	0	0	0	2	1		T	ED	2
Methyl tert-butyl ether	454									CAS No	1634-04-4					
Methyl butyl ketone	970	1	NI	1	(R)	1	(0)	0	0	0	1	1	RN	FED	3	
Methyl butyl ketone	443									CAS No	591-78-6					
Methylbutynol	968	0	NI	0	NR	1	NI	1	1	0	0	2		D	2	
2-Methyl-2-hydroxy-3-butyne	52									CAS No	115-19-5					
Methylbutynol	968	0	NI	0	NR	1	NI	1	1	0	0	2		D	2	
Methylbutynol	459									CAS No	115-19-5					

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Methyl butyrate	973	1	NI	1	NI	(2)	NI	0	0	2	2	(2)		ED	2	
Methyl butyrate	444									CAS No	623-42-7					
Methyl cyclohexane	976	3	3	3	NR	3	1	0	0	1	1	1	A	E	2	
Methylcyclohexane	460									CAS No	108-87-2					
Methyl cyclopentadiene, dimer	977	4	NI	4	(NR)	(3)	NI	0	(0)	(2)	(2)	(2)		F	2	
Methylcyclopentadiene dimer	461									CAS No	26472-00-4					
Methyl cyclopentadienyl manganese tricarbonyl (60-70%) in mineral oil	2213	3	NI	3	NR	4	NI	2	3	4	1	1		S	3	
Methylcyclopentadienyl manganese tricarbonyl	2692									CAS No						
N-Methyldiethanolamine	1491	0	NI	0	R	2	NI	1	0	(2)	1	2		D	2	
Methyl diethanolamine	445									CAS No	105-59-9					
Methylene dithiocyanate	2235	2	NI	2	NR	5	NI	2	0	4	3	3	Ss	NI	3	
Methylene bis thiocyanate	2693									CAS No	6317-18-6					
2-Methyl-6-ethylaniline	984	2	NI	2	NR	2	NI	1	1	(2)	0	2		FD	2	
2-Methyl-6-ethyl aniline	54									CAS No	24549-06-2					
2-Methyl-5-ethylpyridine	986	2	NI	2	R	2	0	1	2	(3)	3	3		FD	3	
2-Methyl-5-ethyl pyridine	53									CAS No	104-90-5					
Methyl formate	987	0	NI	0	R	1	NI	1	0	2	0	2		DE	2	
Methyl formate	447									CAS No	107-31-3					
N-Methylglucamine, 60% aqueous solution	2048	0	NI	0	R	0	NI	1	0	(3)	0	3		D	3	
N-Methylglucamine solution (70% or less)	482									CAS No	6284-40-8					
2-Methylglutaronitrile with 2-Ethylsuccinonitrile (12% or less)	2397	0	NI	0	R	0	NI	2	2	3	0	1		FD	2	
2-Methylglutaronitrile with 2-Ethylsuccinonitrile (12% or less)	3632									CAS No	4553-62-2					
Methyl heptyl ketone	988	3	NI	3	R	3	NI	0	0	NI	NI	NI		FED	NI	
Methyl heptyl ketone	448									CAS No	821-55-6					
Methyl isobutyl ketone	971	1	NI	1	R	1	0	1	0	2	2	3		FED	3	
Methyl isobutyl ketone	449									CAS No	108-10-1					
Methyl methacrylate	995	1	NI	1	R	2	NI	0	0	0	2	2	Ss	ED	2	
Methyl methacrylate	450									CAS No	80-62-6					
3-Methyl-3-methoxy butanol	996	1	NI	1	NR	0	NI	0	(0)	(2)	1	(2)		FD	2	
3-Methyl-3-methoxybutanol	59									CAS No						

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3-Methyl-3-methoxybutyl acetate	997	1	NI	1	NR	0	NI	0	(0)	NI	NI	NI		F	NI	
3-Methyl-3-methoxybutyl acetate	60									CAS No						
Methyl naphthalenes	1999	4	NI	4	(NR)	(4)	NI	1	0	(2)	1	1		T	F	2
Methyl naphthalene (molten)	451									CAS No						
2-Methyl pentane	1000	3	NI	3	NI	4	NI	(0)	(0)	(2)	(2)	(2)		E	2	
2-Methylpentane	2684								CAS No	107-83-5						
2-Methyl-1,3-propanediol	2200	0	0	0	NR	0	0	0	0	(0)	0	0		D	0	
2-Methyl-1,3-propanediol	2213								CAS No							
Methyl propyl ketone	1003	0	NI	0	(R)	0	NI	1	0	(2)	1	2		FED	2	
Methyl propyl ketone	452								CAS No	107-87-9						
2-Methyl pyridine	1005	1	NI	1	R	1	NI	1	2	1	3A	3		D	3	
2-Methylpyridine	55								CAS No	109-06-8						
3-Methylpyridine	1006	1	NI	1	R	1	NI	1	2	2	3	3		D	3	
3-Methylpyridine	61								CAS No	108-99-6						
4-Methylpyridine	1007	1	NI	1	(R)	1	NI	1	2	2	3	3		D	3	
4-Methylpyridine	63								CAS No	108-89-4						
N-Methylpyrrolidone	1008	0	NI	0	R	1	NI	0	0	0	2	1	2	R	D	3
N-Methyl-2-pyrrolidone	481								CAS No	872-50-4						
Methyl salicylate	86	2	NI	2	R	2	NI	1	1	(2)	2	1	R	SD	3	
Methyl salicylate	453								CAS No	119-36-8						
alpha-Methylstyrene	1010	3	3	3	NR	3	NI	0	0	1	2	1	M	(T)	FE	3
alpha-Methylstyrene	107								CAS No	98-83-9						
3-(Methylthio) propionaldehyde	993	0	NI	0	R	3	1	1	1	2	2	3	NSs	T	D	3
3-(methylthio)propionaldehyde	2368								CAS No	3268-49-3						
Metolachlor (ISO)	113	2	2	2	NR	5	1	1	0	(2)	1	0	Ss	S	2	
N-(2-Methoxy-1-methyl ethyl)-2-ethyl-6-methyl chloroacetanilide	469								CAS No	51218-45-2						
Mixed acid oil	2306	(0)	NI	(0)	(R)	(0)	NI	0	(0)	(1)	(1)	1		Fp	2	
Acid oil mixture from soyabean, corn (maize) and sunflower oil refining	3036								CAS No							
Mixture of dithiophosphate salts in water	2381	1	0	1	NR	2	NI	0	0	(2)	2	2		D	2	
Dialkyl thiophosphates sodium salts solution	3424								CAS No							

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Molasses	1013	0	NI	0	R	0	NI	0	0	0	0	0	0	D	0	
Molasses	462													CAS No		
Molybdenum polysulphide long chain alkyl dithiocarbamide complex	2344	4	2	2	NR	2	0	0	0	(2)	2	2	2	Fp	2	
Molybdenum polysulphide long chain alkyl dithiocarbamide complex	3108													CAS No		
Mononitrobenzene	1017	1	1	1	R	3	(4)	(2)	2	2	1	1	CRT	SD	3	
Nitrobenzene	501													CAS No	98-95-3	
Morpholine	1018	0	0	0	R	2	NI	1	2	2	3	3		D	3	
Morpholine	463													CAS No	110-91-8	
Myrcene	1019	4	NI	4	R	4	1	0	0	(2)	2	NI		F	2	
Myrcene	465													CAS No	123-35-3	
Naphthalene (molten)	1	3	3	3	NR	4	1	1	(0)	(1)	0	0	T	T	S	2
Naphthalene (molten)	493													CAS No	91-20-3	
Naphthalene, crude (molten) (#)()	2459	NI	(3)	(3)	NR	3	0	0	(0)	(2)	2	2	CMT	Fp	3	
Naphthalene crude (molten)	3858													CAS No	85117-10-8	
Naphthalene sulphonic acid condensed with formaldehyde, sodium salt, solution	1020	0	1	1	(NR)	1	NI	0	(0)	(1)	0	1		D	1	
Naphthalenesulphonic acid-Formaldehyde copolymer, sodium salt solution	494													CAS No	9084-06-4	
Neodecanoic acid	1025	4	NI	4	NR	2	NI	0	0	(2)	0	2		Fp	2	
Neodecanoic acid	496													CAS No	26896-20-8	
Nitric acid (90% or less)	1029	Inorg	NI	0	Inorg	2	NI	(3)	(1)	3	3C	3		D	3	
Nitric acid (less than 70%)	499													CAS No	7697-37-2	
Nitric acid (90% or less)	1029	Inorg	NI	0	Inorg	2	NI	(3)	(1)	3	3C	3		D	3	
Nitric acid (70% and over)	498													CAS No	7697-37-2	
Nitrilotriacetic acid,trisodium salt	1030	0	NI	0	R	1	0	1	(0)	0	1	1	CMR	D	3	
Nitrilotriacetic acid, trisodium salt solution	500													CAS No	5094-31-3	
Nitroethane	1037	0	NI	0	NR	2	NI	1	0	(2)	(0)	(1)		SD	2	
Nitroethane	502													CAS No	79-24-3	
Nitroethane (80%)/Nitropropane (20%)	2245	0	1	1	NR	2	NI	1	1	2	0	1		E	2	
Nitroethane(80%)/ Nitropropane(20%)	503													CAS No		
Nitroethane, 1-Nitropropane (each 15% or more) mixture	2270	(0)	(1)	(1)	(NR)	(2)	NI	1	1	2	0	1		FED	2	
Nitroethane, 1-Nitropropane (each 15% or more) mixture	2212													CAS No		

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2-Nitrophenol	1041	1	2	2	R	3	(2)	0	0	(1)	1	1		S	1	
o-Nitrophenol (molten)	536									CAS No	88-75-5					
1-Nitropropane	1044	0	1	1	NR	1	NI	1	0	2	0	1		FED	2	
1-Nitropropane	2747									CAS No	108-03-2					
1- or 2- Nitropropane	2242	0	1	1	NR	1	NI	2	0	2	0	1	C	FED	3	
1- or 2-Nitropropane	20									CAS No						
2-Nitropropane	1045	0	1	1	NR	2	NI	2	0	2	0	0	C	FED	3	
2-Nitropropane	2748									CAS No	79-46-9					
Nitropropane (60%) Nitroethane (40%) (mixture)	1046	0	1	1	NR	2	NI	1	0	2	0	1	C	FED	3	
Nitropropane (60%)/Nitroethane (40%) mixture	504									CAS No						
o-Nitrotoluene	1049	2	2	2	NR	2	(1)	1	0	(2)	0	1	CMR	S	3	
o-Nitrotoluene	2745									CAS No	88-72-2					
p-Nitrotoluene	1051	2	1	1	NR	3	0	1	0	(2)	0	1	R	S	3	
p-Nitrotoluene	2746									CAS No	99-99-0					
o- or p-Nitrotoluenes	2241	2	2	2	NR	3	(1)	1	0	(2)	0	1	CMR	S	3	
o- or p-Nitrotoluenes	532									CAS No						
Nonane	1054	4	NI	4	R	4	NI	0	0	1	1	1	A	FE	2	
Nonane (all isomers)	506									CAS No	111-84-2					
Nonanoic acid	1055	3	NI	3	R	2	NI	0	0	(3)	2	3		F	3	
Nonanoic acid (all isomers)	507									CAS No	112-05-0					
Nonene (all isomers)	2222	4	NI	4	NI	3	NI	0	0	0	1	1	A	FE	2	
Nonene (all isomers)	508									CAS No						
1-Nonene	1060	4	NI	4	NI	3	NI	0	0	0	1	1	A	FE	2	
1-Nonene	2680									CAS No	27215-95-8					
Nonyl acetate	1766	4	NI	4	NI	NI	NI	0	0	NI	NI	NI		F	NI	
Nonyl acetate	509									CAS No	143-13-5					
Nonyl methacrylate monomer	1061	5	NI	5	R	3	NI	(0)	(0)	(1)	(1)	(1)		F	1	
Nonyl methacrylate monomer	511									CAS No	2696-43-7					
Nonyl phenol	1062	5	4	4	NR	5	3	1	0	(3)	3	3		Fp	3	
Nonylphenol	512									CAS No	25154-52-3					

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Nonyl(C6-C12)phenol poly(4-12)ethoxylate	1063	4	NI	4	NR	3	1	0	0	(2)	2	1		D	2	
Alkyl(C7-C11)phenol poly(4-12) ethoxylate	97									CAS No						
Nonyl(C6-C12)phenol poly(4-12)ethoxylate	1063	4	NI	4	NR	3	1	0	0	(2)	2	1		D	2	
Nonylphenol poly(4+)ethoxylate	513									CAS No						
Octamethylcyclotetrasiloxane	2398	5	5	5	NR	0	3	0	0	0	0	0		F	1	
Octamethylcyclotetrasiloxane	3633									CAS No						
Octane	1072	5	NI	5	(R)	4	NI	(0)	(0)	0	0	0	A	FE	2	
Octane (all isomers)	538								CAS No	111-65-9						
Octanoic acid (Caprylic acid)	1074	3	NI	3	R	1	NI	0	0	(3)	3	3		F	3	
Octanoic acid (all isomers)	539								CAS No	124-07-2						
1-Octanol	1075	3	NI	3	R	2	0	1	0	(2)	2	2		Fp	2	
Octanol (all isomers)	540								CAS No	111-87-5						
1-Octanol	1075	3	NI	3	R	2	0	1	0	(2)	2	2		Fp	2	
1-Octanol	2676								CAS No	111-87-5						
Octene (all isomers)	1079	4	NI	4	NR	3	NI	0	0	0	2	1	A	FE	2	
Octene (all isomers)	541								CAS No							
Octyl acetate	1080	3	NI	3	R	2	NI	0	0	(1)	1	NI		FD	1	
n-Octyl acetate	483								CAS No	112-14-1						
Octyl decyl adipate	1082	0	NI	0	(R)	(0)	(0)	(0)	(0)	(1)	(1)	(1)		Fp	2	
Octyl decyl adipate	543								CAS No	110-29-2						
n-Octyl mercaptan	2461	4	3	3	NR	5	NI	1	0	(1)	1	0	Ss	F	3	
n-Octyl mercaptan	3742								CAS No							
Olefin/Alkyl ester copolymer (molecular weight 2000+) (LOA)	1965	NI	NI	0	NR	0	NI	0	0	(0)	0	0		Fp	2	
Olefin-Alkyl ester copolymer (molecular weight 2000+)	546								CAS No							
Olefin mixture (C7-C9)	2385	5	4	4	NR	4	NI	(0)	0	0	2	1	A	E	2	
Olefin mixture (C7-C9) C8 rich, stabilized	3548								CAS No	97593-00-5						
Olefin mixtures (C5-C7)	2243	3	NI	3	R	3	NI	(0)	(0)	(1)	(2)	(1)		E	2	
Olefin mixtures (C5-C7)	545								CAS No							
Olefin mixtures (C5-C15)	2321	(5)	NI	(5)	NR	(4)	NI	(0)	(0)	(2)	(2)	(1)	A	FE	2	
Olefin mixtures (C5-C15)	544								CAS No							

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Olefins C13 and above, all isomers (#)	2028	5	NI	5	NR	0	NI	0	0	(1)	(1)	0	A		Fp	3
Olefins (C13+, all isomers)	547												CAS No			
alpha-Olefins (C6-C18),mixture	2030	(5)	NI	(5)	NR	(4)	NI	(0)	(0)	(2)	(2)	(1)	A		FE	2
alpha-Olefins (C6-C18) mixtures	108												CAS No			
alpha-Olefins (C12+), mixture (#)	2516	(5)	(5)	(5)	(R)	(0)	NI	(0)	(0)	(1)	(1)	(0)	A		Fp	3
alpha-Olefins (C12+), mixture	4197												CAS No			
Oleic acid	1089	0	NI	0	R	0	NI	0	1	(2)	1	1			Fp	2
Oleic acid	548												CAS No	112-80-1		
Oleylamine	1862	0	NI	0	NR	4	NI	1	(1)	(3)	3B	3			Fp	3
Oleylamine	550												CAS No			
Olive oil	1090	0	NI	0	R	(2)	NI	(0)	(0)	(1)	1	1			Fp	2
Olive oil	2771												CAS No	8001-25-0		
Orange juice	2375	0	0	0	R	0	0	0	0	(0)	0	0			D	0
Orange juice	3151												CAS No			
Orange juice (not concentrated)	2382	0	0	0	R	0	0	0	0	(0)	0	0			D	0
Orange juice (not concentrated)	3425												CAS No			
Oxatetra-azahydroxyalkanoic acid, substituted with acetic acid / acetoxyethanolamine	2413	1	NI	1	R	1	NI	0	0	0	0	0			D	0
Oxatetra-azahydroxyalkanoic acid, substituted with acetic acid / acetoxyethanolamine	3689												CAS No			
Oxygenated aliphatic hydrocarbon mixture	2266	5	2	(2)	NR	1	NI	0	0	(1)	1	1			FE	2
Oxygenated aliphatic hydrocarbon mixture	2825												CAS No			
Palm acid oil	2307	(0)	NI	(0)	(R)	(0)	NI	0	(0)	(1)	0	1			Fp	2
Palm acid oil	3037												CAS No			
Palm fatty acid distillate	2310	NI	NI	(0)	(R)	(0)	NI	0	(0)	(1)	0	1			Fp	2
Palm fatty acid distillate	3040												CAS No			
Palm kernel fatty acid distillate	2335	(0)	0	0	R	(3)	NI	0	(0)	(2)	1	2			Fp	2
Palm kernel fatty acid distillate	3111												CAS No			
Palm kernel olein (containing less than 5 % free fatty acids)	2308	(0)	NI	(0)	(R)	1	NI	(0)	(0)	(0)	(0)	(0)			Fp	2
Palm kernel olein	3038												CAS No			
Palm kernel stearin (containing less than 5% free fatty acids)	2309	0	(0)	(0)	(R)	0	NI	(0)	(0)	(0)	(0)	(0)			Fp	2
Palm kernel stearin	3039												CAS No			

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Palm Mid Fraction	2363	(0)	NI	(0)	(R)	(0)	NI	0	0	(0)	(0)	(0)		Fp	2	
Palm mid-fraction	3126												CAS No			
Palm nut oil	1094	0	NI	0	R	1	NI	(0)	(0)	(1)	(0)	(1)		Fp	2	
Palm kernel oil	2766												CAS No			
Palm nut oil fatty acid	1095	0	NI	0	R	(3)	NI	0	0	(2)	1	2		Fp	2	
Palm kernel acid oil	553												CAS No			
Palm oil (containing less than 15% free fatty acids)	2249	0	NI	0	R	0	NI	0	(0)	(0)	0	0		Fp	2	
Palm oil	2764												CAS No			
Palm oil (containing more than 15% and less than 30% free fatty acids)	2364	0	NI	0	R	0	NI	0	0	(2)	(2)	(2)		Fp	2	
Non-edible industrial grade palm oil	3127												CAS No			
Palm oil fatty acid methyl ester	1097	0	NI	0	R	0	NI	0	0	0	0	1		Fp	2	
Palm oil fatty acid methyl ester	554												CAS No			
Palm olein	2250	0	NI	0	R	0	NI	0	(0)	(0)	0	0		Fp	2	
Palm olein	2765												CAS No			
Palm stearin	2251	0	NI	0	R	0	NI	0	(0)	(0)	0	0		Fp	2	
Palm stearin	555												CAS No			
Paraffin wax, highly-refined	1086	(5)	NI	(5)	(NR)	0	(0)	(0)	(0)	(0)	(0)	(0)		Fp	2	
Paraffin wax, highly-refined	556												CAS No	8002-74-2		
Paraffin wax, semi-refined	2244	(5)	NI	(5)	NR	0	(0)	(0)	(0)	(0)	(0)	(0)	T	Fp	3	
Paraffin wax, semi-refined	565												CAS No			
Paraldehyde	1098	0	0	0	NR	0	NI	1	0	0	1	3		D	3	
Paraldehyde	557												CAS No	123-63-7		
Pentachloroethane	1099	3	2	2	NI	3	1	1	(1)	1	(1)	(1)	CT	S	3	
Pentachloroethane	558												CAS No	76-01-7		
1,3-Pentadiene	1102	2	NI	2	NR	2	NI	0	0	0	1	(2)		E	2	
1,3-Pentadiene	14												CAS No	504-60-9		
1,3-Pentadiene (greater than 50%), cyclopentene and isomers, mixtures.	2390	NI	NI	(3)	(NR)	(3)	NI	(2)	(1)	(3)	(2)	(2)	CMR	E	3	
1,3-Pentadiene (greater than 50%), cyclopentene and isomers, mixtures	3560												CAS No			
Pentaethylene hexamine	1103	0	NI	0	NI	4	NI	1	(2)	(3)	3	(3)	Ss	D	3	
Pentaethylenehexamine	560												CAS No	4067-16-7		

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Pentane	1105	3	NI	3	R	3	NI	0	0	0	1	1		E	2	
Pentane (all isomers)	561									CAS No	109-66-0					
1,5-Pentanediol solution, (5-50%) (#)	1107	0	NI	0	R	3	0	1	0	3	3	3	SsSr	D	3	
Glutaraldehyde solutions (50% or less)	362									CAS No	111-30-8					
Pentanoic acid	1109	1	NI	1	NI	2	NI	1	2	(3)	3	3		FD	3	
Pentanoic acid	562									CAS No	109-52-4					
Pentanoic acid (64%)/2-methyl butyric acid (36%) mixture	2144	(1)	NI	(1)	NI	(2)	NI	(1)	(2)	(3)	3	(3)		FD	3	
n-Pentanoic acid (64%)/2-Methyl butyric acid (36%) mixture	2211									CAS No						
1-Pentanol	1110	1	1	1	(R)	1	0	1	0	(3)	2	3		FED	3	
n-Amyl alcohol	473									CAS No	71-41-0					
2-Pentanol	1111	1	1	1	R	1	0	0	(0)	(2)	2	2		D	2	
sec-Amyl alcohol	637									CAS No	6032-29-7					
Pentasodium triphosphate (*)	2418	Inorg	0	0	Inorg	1	NI	NI	NI	NI	NI	NI		NI	NI	
	3694									CAS No						
Pentene (all isomers)	1992	2	NI	2	NI	(2)	NI	(0)	(0)	(0)	(0)	(1)		E	2	
Pentene (all isomers)	563									CAS No						
1-Pentene	1114	2	NI	2	NI	(2)	NI	(0)	(0)	0	(0)	(1)		E	2	
1-Pentene	2679									CAS No	109-67-1					
2-Pentene	1115	2	NI	2	NI	2	NI	(0)	(0)	(0)	(0)	(1)		E	2	
2-Pentene	2678									CAS No	109-68-2					
Phenol	1124	1	2	2	R	3	0	2	2	(3)	3	3		NT	S	3
Phenol	566									CAS No	108-95-2					
Phenylxylylethane	1135	5	4	4	NR	(2)	NI	1	0	(1)	(0)	0		F	1	
1-Phenyl-1-xylyl ethane	23									CAS No	40766-31-2					
Phosphate esters, alkyl(C12-C14)amine (LOA)	1854	2	NI	2	NR	3	NI	0	(0)	(2)	1	2		FD	2	
Phosphate esters, alkyl (C12-C14) amine	1345									CAS No						
[(Phosphonomethyl)imino]bis[ethylenenitrilobis(methylene)]]tetrakisphosphonic acid, ammonium salt solution (60% or less)	2509	0	NI	0	NR	2	(0)	(0)	(0)	(1)	(1)	(1)		D	1	
[(Phosphonomethyl)imino]bis[ethylenenitrilobis(methylene)]]tetrakisphosphonic acid, ammonium salt solution (60% or less)	4077									CAS No	70714-66-8					

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Phosphoric acid	1138	0	NI	0	Inorg	1	NI	1	1	3	3	3		D	3	
Phosphoric acid	567												CAS No	7664-38-2		
Phosphorus (elemental yellow)	1139	Inorg	(3)	(3)	Inorg	6	4	0	0	0	2	1		S	2	
Phosphorus, yellow or white	568												CAS No	7732-14-0		
Phthalic anhydride (molten)	1146	1	NI	1	R	2	0	1	0	(3)	1	3	SsSr		S	3
Phthalic anhydride (molten)	569												CAS No	85-44-9		
alpha-Pinene	40	4	NI	4	R	4	NI	0	0	0	1	(1)	Ss	T	F	3
alpha-Pinene	109												CAS No	80-56-8		
beta-Pinene	41	4	NI	4	(R)	4	NI	0	0	0	1	(1)	Ss	NT	F	3
beta-Pinene	141												CAS No	1330-16-1		
Pine oil	1148	4	NI	4	NR	4	NI	0	0	(1)	(1)	(1)	Ss	(T)	Fp	3
Pine oil	570												CAS No	8002-09-3		
Piperazine, 68% Aqueous	2433	0	NI	0	NR	2	NI	0	0	2	3A	3	SsSrN		SD	3
Piperazine, 68% solution	3748												CAS No	110-85-0		
Pol (2-8) alkylene (C2-C3) glycols/ Polyalkylene (C2-C10) glycols monoalkyl ethers and their borate esters	2358	(1)	NI	(1)	(R)	(1)	(0)	0	0	0	2	2		D	2	
Brake fluid base mix: Poly(2-8)alkylene (C2-C3) glycols/Polyalkylene (C2-C10) glycols monoalkyl (C1-C4) ethers and their borate esters	144												CAS No			
Polyacrylic acid (40% solution)	2302	(2)	NI	(2)	NR	1	NI	0	0	(1)	1	1		D	1	
Polyacrylic acid solution (40% or less)	2709												CAS No			
Polyalkene sulphonic acid (C16-C18), sodium salt	2527	(3)	(2)	(3)	(R)	(4)	NI	(1)	(0)	(2)	(2)	(2)		D	2	
Polyalkene sulphonic acid (C16-C18), sodium salt	4236												CAS No			
Polyalkene sulphonic acid (C20-C28), sodium salt (#)	2481	(5)	(4)	(4)	(NR)	1	0	(1)	(0)	(2)	(2)	(2)		Fp	2	
Polyalkene sulphonic acid (C20-C28), sodium salt	4057												CAS No			
Poly(C18-C22)alkyl acrylate in xylene	1151	(3)	NI	(3)	NR	2	NI	0	0	(2)	2	1		Fp	2	
Polyalkyl (C18-C22) acrylate in xylene	580												CAS No			
Polyalkylalkenaminesuccinimide, molybdenum oxysulphide	2379	NI	0	0	NR	0	NI	0	0	(0)	0	0		Fp	2	
Polyalkylalkenaminesuccinimide, molybdenum oxysulphide	3422												CAS No			
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	1152	1	NI	1	R	1	0	0	0	0	2	2		D	2	
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	576												CAS No			

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EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether acetate	2254	1	NI	1	NR	2	1	0	0	0	2	2		D	2	
Poly(2-8)alkylene glycol monoalkyl (C1-C6) ether acetate	575												CAS No			
Poly N-alkylmethacrylamide ammonium acrylate copolymer (20 % in DEGME) (**)	2468	0	NI	0	NR	2	NI	NI	NI	NI	NI	NI		D	NI	
	3931												CAS No			
Poly alkyl methacrylate (C1-C20) (LOA)	1984	(5)	NI	(5)	NR	0	NI	0	0	0	0	0		Fp	2	
Polyalkyl (C10-C20) methacrylate	2189												CAS No			
Poly alkyl(C10-C18) methacrylate/ethylene-propylene copolymer mixture	2201	0	0	0	NR	0	0	0	0	(1)	1	1	A	Fp	3	
Polyalkyl (C10-C18) methacrylate/ethylene-propylene copolymer mixture	2188												CAS No			
Poly alkyl(C18-C22)methacrylates/lauryl acrylate/vinyl acetate (40% in naphtha)	2512	(5)	(5)	(5)	NR	0	NI	0	0	(1)	1	(1)		Fp	2	
	4161												CAS No			
Polyaluminium chloride (sol.)	1136	Inorg	0	0	Inorg	0	NI	(0)	(0)	(1)	(0)	(1)		D	1	
Polyaluminium chloride solution	584												CAS No	1327-41-9		
Polybutene	1154	0	NI	0	(NR)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		Fp	2	
Polybutene	585												CAS No	9003-29-6		
Polybutenylsuccinimide in oil	2055	5	NI	5	NR	0	NI	(0)	(0)	(0)	0	(0)		Fp	2	
Polybutenyl succinimide	586												CAS No			
Poly(2+)cyclic aromatics	2246	4	4	4	NR	(4)	NI	(1)	(1)	(2)	(1)	(1)	CM	S	3	
Poly(2+)cyclic aromatics	574												CAS No			
Polyether, borated	1863	0	NI	0	NR	3	1	0	(0)	(1)	1	0		D	1	
Polyether, borated	572												CAS No			
Polyether (molecular weight 2000+) (LOA)	1975	0	NI	0	NR	1	NI	0	(0)	(0)	0	0		Fp	2	
Polyether (molecular weight 1350+)	587												CAS No			
Polyethylene amines / paraffin mixtures	1991	(5)	NI	(5)	NR	3	0	0	(1)	(3)	(2)	(3)	Ss	Fp	3	
Polyethylene polyamines (more than 50% C5 -C20 paraffin oil)	591												CAS No			
Polyethylene glycol	1157	0	NI	0	NR	0	NI	0	0	0	1	1		D	1	
Polyethylene glycol	589												CAS No	25322-68-3		
Polyethylene glycol dimethyl ether	1158	0	NI	0	NR	0	NI	0	0	(1)	1	(1)		D	1	
Polyethylene glycol dimethyl ether	590												CAS No	24991-55-7		
Poly(ethylene glycol) methylbutenyl ether (MW >1000)	2395	NI	0	0	R	1	NI	0	0	(0)	0	0		D	0	
Poly(ethylene glycol) methylbutenyl ether (MW>1000)	3501												CAS No			

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Polyethylene glycol sorbitol hexaoleate	2533	0	NI	0	R	2	NI	(0)	(0)	(0)	(0)	(0)	(0)	Fp	2	
Polyethylene glycol sorbitol hexaoleate	4242													CAS No		
Polyethylene polyamines	2367	0	NI	0	NR	3	0	1	0	(3)	2	(3)	Ss	D	3	
Polyethylene polyamines	3131													CAS No		
Polyferric sulphate solution	338	Inorg	0	0	Inorg	(2)	NI	1	(1)	(3)	3	(3)		D	3	
Polyferric sulphate solution	592													CAS No		
Polyglycerine, sodium salt, solution	1874	0	NI	0	R	0	NI	0	0	(3)	(2)	3		D	3	
Polyglycerin, sodium salt solution (containing less than 3% sodium hydroxide)	593													CAS No		
Polyglycerol	1511	NI	NI	NI	NI	NI	NI	0	(0)	(0)	(0)	(0)		D	0	
Polyglycerol	594													CAS No		
Poly(iminoethylene)-graft-N-poly (ethyleneoxy) solution (90% or less)	2287	0	0	0	NR	0	NI	0	0	(1)	0	1		D	1	
Poly(iminoethylene)-graft-N-poly(ethyleneoxy) solution (90% or less)	2537													CAS No		
Polyisobutamine in aliphatic (C10-C14) solvent	2192	0	0	0	NR	2	NI	0	(0)	(2)	2	1		FED	2	
Polyisobutamine in aliphatic (C10-C14) solvent	2374													CAS No		
(Polyisobutene) amino products in aliphatic hydrocarbons	2455	0	NI	(5)	NR	2	NI	0	0	(1)	1	0	A	Fp	3	
(Polyisobutene) amino products in aliphatic hydrocarbons	3811													CAS No		
Polyisobutyl anhydride adduct	2127	0	NI	0	NR	0	NI	0	0	(1)	0	1		FD	1	
Polyisobutyl anhydride adduct	2256													CAS No		
Poly(4+)-isobutylene	2264	0	NI	0	NR	0	NI	(0)	(0)	(0)	(0)	(0)		Fp	2	
Polyisobutylene (MW≤224)	578													CAS No		
Polymethylene polyphenyl isocyanate	1153	NI	(2)	(2)	NR	0	0	0	0	(2)	2	2	SsSr	S	2	
Polymethylene polyphenyl isocyanate	595													CAS No	9016-87-9	
Polyolefin acid, potassium salt	1895	NI	NI	NI	NR	0	NI	0	0	(0)	0	0		NI	0	
Potassium salt of polyolefin acid	2199													CAS No		
Polyolefinamide alkene(C16+)amine (LOA)	2104	5	NI	5	NR	0	NI	0	0	(1)	1	(1)		Fp	2	
Polyolefin amide alkeneamine (C17+)	597													CAS No		
Polyolefin amide alkeneamine (C28+) (LOA)	1971	0	NI	0	NR	0	NI	0	0	(0)	1	(1)		NI	1	
Polyolefin amide alkeneamine (C28+)	598													CAS No		
Polyolefin amide alkeneamine borate (C28-C250) (LOA)	1970	0	NI	0	NR	0	NI	0	0	(0)	0	(0)		Fp	2	
Polyolefin amide alkeneamine borate (C28-C250)	600													CAS No		

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Polyolefin amide alkeneamine/molybden oxysulphide mi	2256	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
Polyolefin amide alkeneamine/molybdenum oxysulphide mixture	603															CAS No
Polyolefin amide alkylene amine polyol	1989	0	2	2	NR	0	NI	0	0	(0)	0	0				Fp 3
Polyolefin amide alkeneamine polyol	602															CAS No
Poly (17+) olefin amine	2049	0	NI	0	NR	2	NI	0	(0)	(1)	(1)	(1)				Fp 2
Poly (17+) olefin amine	571															CAS No 98761-78-5
Polyolefinamine (C28-C250) (LOA)	2107	0	NI	0	NR	2	NI	0	(0)	(2)	2	(1)				Fp 2
Polyolefinamine in alkyl (C2-C4) benzenes	610															CAS No
Polyolefinamine (C28-C250) (LOA)	2107	0	NI	0	NR	2	NI	0	(0)	(2)	2	(1)				Fp 2
Polyolefinamine in aromatic solvent	611															CAS No
Polyolefinamine (C28-C250) (LOA)	2107	0	NI	0	NR	2	NI	0	(0)	(2)	2	(1)				Fp 2
Polyolefinamine (C28-C250)	609															CAS No
Polyolefin aminoester salt	2095	0	NI	0	NR	1	NI	0	0	(1)	1	(1)				Fp 2
Polyolefin aminoester salts (molecular weight 2000+)	604															CAS No
Polyolefin ester (C28-C250) (LOA)	1969	0	NI	0	NR	0	NI	0	0	(0)	0	0				Fp 2
Polyolefin ester (C28-C250)	606															CAS No
Polyolefin (molecular weight 300+) (LOA)	1968	0	NI	0	NR	0	NI	0	0	0	0	0				Fp 2
Polyolefin (molecular weight 300+)	596															CAS No
Polyolefin phenolic amine (C28-C250) (LOA)	1980	0	NI	0	NI	0	NI	0	0	(1)	(1)	(1)				Fp 2
Polyolefin phenolic amine (C28-C250)	607															CAS No
Polyolefin phosphoro sulphide - barium derivative (C28-C250) (LOA)	1976	0	NI	0	NI	2	NI	0	(0)	(0)	(0)	(0)				S 0
Polyolefin phosphorosulphide, barium derivative (C28-C250)	608															CAS No
Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy-, phosphate	2506	(4)	(3)	(3)	NR	3	(1)	(1)	(1)	(3)	(2)	(3)				S 3
Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy-, phosphate	4158															CAS No 51811-79-1
Polyoxyethylene sorbitan monooleate	1442	3	(2)	3	R	2	0	0	(0)	(0)	0	0				D 0
Poly(20)oxyethylene sorbitan monooleate	577															CAS No 9005-65-6
Polyoxypropylene diamine	2352	1	NI	1	NR	1	NI	0	0	(3)	3	3				D 3
					3112											CAS No
Polypropylene	1512	0	NI	0	NR	(0)	NI	(0)	(0)	(0)	(0)	(0)				F 1
Poly(5+)propylene	579															CAS No 9003-07-0

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Polypropylene glycol	1159	0	NI	0	(NR)	1	NI	1	0	(1)	1	1		D	1	
Polypropylene glycol	612									CAS No	25322-69-4					
Polysiloxane	1161	NI	4	4	NI	2	NI	0	(0)	(0)	0	0		F	1	
Dimethylpolysiloxane	275									CAS No						
Polysiloxane	1161	NI	4	4	NI	2	NI	0	(0)	(0)	0	0		F	1	
Polysiloxane	613									CAS No						
Poly(tetramethylene) ether glycol (mw 600-3000)	2147	2	NI	2	NR	3	NI	0	0	(0)	0	(0)		FD	0	
Poly(tetramethylene ether) glycol (mw 600-3000)	2540									CAS No						
Potassium carbonate solution	2465	Inorg	0	0	Inorg	2	NI	0	0	(0)	2	2		D	2	
Potassium carbonate solution	3928									CAS No						
Potassium chloride solution	1513	0	0	0	Inorg	1	0	0	(0)	(0)	0	0		D	0	
Potassium chloride solution	614									CAS No	7447-40-7					
Potassium chloride solution (less than 26%)	2345	Inorg	0	0	Inorg	0	0	0	(0)	(0)	0	0		D	0	
Potassium chloride solution (less than 26%)	3109									CAS No						
Potassium formate solution (75% or more)	2121	0	NI	0	R	0	NI	(0)	(0)	(2)	2	2		D	2	
Potassium formate solutions	615									CAS No	590-29-4					
Potassium hydroxide (sol.)	1171	Inorg	0	0	Inorg	2	NI	2	(2)	(3)	3C	3		D	3	
Potassium hydroxide solution	616									CAS No	1310-58-3					
Potassium iodide	2484	Inorg	(0)	(0)	Inorg	1	0	0	0	(0)	0	0	T	D	2	
Potassium iodide	4060									CAS No	7681-11-0					
Potassium oleate	1497	3	NI	3	R	4	NI	(0)	(0)	(1)	1	1		FD	1	
Potassium oleate	617									CAS No	143-18-0					
Potassium thiosulphate solution (50% or less)	2152	Inorg	0	0	Inorg	2	NI	0	0	(2)	2	(2)		D	2	
Potassium thiosulphate (50% or less)	2335									CAS No						
Propanol	1180	0	NI	0	R	0	NI	1	0	0	1	2	R	D	3	
n-Propyl alcohol	488									CAS No	71-23-8					
Propanolamine	1183	0	NI	0	R	2	NI	0	1	(3)	3	3		D	3	
n-Propanolamine	485									CAS No	156-87-6					
2-Propene-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer (aqueous solution)	2420	0	NI	0	R	2	0	0	(0)	(0)	0	(0)		D	0	
2-Propene-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer	3696									CAS No						

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2-Propenoic acid polymer with 4-(1,1-dimethylethyl)phenol, formaldehyde, 2,5-furandione, 2-methyloxirane and oxirane (65% in naphtha/xylene)	2491	(5)	NI	(5)	NR	2	NI	0	0	(0)	(0)	0	A	Fp	3	
2-Propenoic acid polymer with 4-(1,1-dimethylethyl)phenol, formaldehyde, 2,5-furandione, 2-methyloxirane and oxirane (65% in naphtha/xylene)	4125									CAS No	178603-70-8					
2-Propenoic acid polymer with furandione (65% in 2-butoxyethanol)	2435	0	NI	0	NR	2	0	1	0	0	2	2		Fp	2	
2-Propenoic acid polymer with furandione (65% in 2-butoxyethanol)	3750									CAS No						
beta-Propiolactone	1184	0	NI	0	R	(2)	NI	2	(2)	4	3B	3	CM	D	3	
beta-Propiolactone	142									CAS No	57-57-8					
Propionaldehyde	1185	0	NI	0	R	2	NI	1	0	1	2	2		DE	2	
Propionaldehyde	619									CAS No	123-38-6					
Propionic acid	1186	0	NI	0	R	2	NI	0	0	(3)	3B	3		D	3	
Propionic acid	620									CAS No	79-09-4					
Propionic anhydride	1187	0	NI	0	R	2	NI	0	0	(3)	2	3		FD	3	
Propionic anhydride	621									CAS No	123-62-6					
Propionitrile	1188	0	NI	0	NI	0	NI	3	3	4	1	2	R	D	3	
Propionitrile	622									CAS No	107-12-0					
Propyl acetate	1191	1	NI	1	R	2	NI	0	0	0	1	1		ED	1	
n-Propyl acetate	487									CAS No	109-60-4					
Propylamine	1194	0	NI	0	NI	1	NI	2	2	3	3	3		DE	3	
n-Propylamine	490									CAS No	107-10-8					
Propyl benzene	1196	NI	NI	NI	NI	3	NI	NI	NI	NI	NI	NI		(T)	FE	NI
Propylbenzene	2686									CAS No	103-65-1					
Propyl chloride	1198	2	NI	2	NI	1	NI	0	NI	NI	NI	NI		FED	2	
n-Propyl chloride	489									CAS No	540-54-5					
Propylene carbonate	2056	0	NI	0	R	0	NI	0	0	(3)	2	3		D	3	
Propylene carbonate	624									CAS No	108-32-7					
Propylene dimer	1201	3	NI	3	R	3	NI	NI	NI	NI	NI	NI		E	2	
Propylene dimer	625									CAS No						
1,2-Propylene glycol	1202	0	NI	0	R	0	0	0	0	0	0	0		D	0	
Propylene glycol	626									CAS No	57-55-6					

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Propylene glycol methyl ether acetate	1759	0	NI	0	NR	1	NI	0	0	0	0	0	1		D	1
Propylene glycol methyl ether acetate	627									CAS No	108-65-6					
Propylene glycol monoalkyl ether	1958	0	NI	0	NR	0	NI	0	1	0	2	3			D	3
Propylene glycol monoalkyl ether	628									CAS No						
Propylene glycol phenyl ether	2057	1	NI	1	NI	1	NI	0	0	(1)	(1)	(1)			SD	1
Propylene glycol phenyl ether	629									CAS No	4169-04-4					
Propylene oxide	76	0	NI	0	R	2	NI	1	2	2	2	3	CM		DE	3
Propylene oxide	630									CAS No	75-56-9					
Propylene oxide/Ethylene oxide mixture	78	0	NI	0	R	1	NI	1	1	3	3	3	CMR		DE	3
Ethylene oxide/Propylene oxide mixture with an ethylene oxide content of not more than 30% by mass	341									CAS No						
Propylene tetramer	2255	NI	4	4	NR	(4)	NI	(0)	(0)	(1)	(1)	(1)			F	1
Propylene tetramer	631									CAS No	6842-15-5					
Propylene trimer	1207	5	4	4	NR	3	2	(0)	(0)	(1)	(1)	(1)			FE	2
Propylene trimer	632									CAS No	13987-01-4					
Pyridine	1213	0	NI	0	R	3	0	1	1	2	1	3		NT	D	3
Pyridine	634									CAS No	110-86-1					
Pyridine bases	2131	1	NI	1	R	2	NI	2	1	(3)	3B	3			FED	3
Paraldehyde-ammonia reaction product	1989									CAS No						
Pyridinium, 1-(phenylmethyl)-, ethyl methyl derivs., chlorides	2507	3	NI	3	NR	4	2	NI	NI	NI	(3B)	(3)			D	3
Pyridinium, 1-(phenylmethyl)-, ethyl methyl derivs., chlorides	4159									CAS No	68909-18-2					
Pyrolysis gasoline	2271	(4)	(3)	(3)	(R)	(3)	(1)	1	0	(2)	2	2	TCM		FE	3
Pyrolysis gasoline (containing benzene)	1990									CAS No						
Quaternary ammonium compounds, benzyl-C12-14 (even-numbered)-alkyldimethyl, chlorides solution	2494	3	NI	3	NR	4	NI	1	0	(3)	3B	3			D	3
	4128									CAS No	68424-85-1					
Rapeseed oil (high erucic acid; containing less than 4% free fatty acids)	2315	0	NI	0	R	(2)	NI	(0)	(0)	(0)	(1)	(1)			Fp	2
Rapeseed oil	3045									CAS No						
Rapeseed oil (Low erucic acid containing less than 4% free fatty acids)	2296	0	NI	0	R	(2)	NI	0	0	0	(1)	(1)			Fp	2
Rapeseed oil (low erucic acid containing less than 4% free fatty acids)	2956									CAS No						
Rape seed oil fatty acid, methyl ester	2209	0	0	0	R	0	NI	0	(0)	(1)	1	1			Fp	2
Rape seed oil fatty acid methyl esters	2576									CAS No						

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Rice bran oil (containing less than 15% of free fatty acids)	2312	(0)	NI	(0)	(R)	(0)	NI	0	(0)	(1)	0	1		Fp	2	
Rice bran oil	3043												CAS No			
Rosin	1219	3	NI	3	NR	3	NI	0	0	2	(1)	1	Ss	S	2	
Rosin	635												CAS No	8050-09-7		
Rosin soap (disproportionated solution)	1220	3	NI	3	NR	3	NI	0	NI	NI	NI	NI		S	NI	
Rosin soap (disproportionated) solution	636												CAS No			
Safflower oil (containing less than 5% free fatty acids)	1222	(0)	NI	(0)	(R)	(0)	NI	(0)	(0)	(1)	1	1		Fp	2	
Safflower oil	3041												CAS No	8001-23-8		
Saturated and unsaturated alkyl (C10-C20) phosphite (LOA)	2108	0	NI	0	R	1	NI	0	0	(0)	0	0		Fp	2	
Alkyl (C10-C20, saturated and unsaturated) phosphite	96												CAS No			
Shea butter (containing less than 15% free fatty acids)	2311	(0)	NI	(0)	NR	(0)	NI	(0)	(0)	(1)	(0)	(1)		Fp	2	
Shea butter	3042												CAS No			
Silica slurry	1514	Inorg	0	0	Inorg	0	0	(0)	(0)	0	(0)	(0)		S	0	
Microsilica slurry	2507												CAS No	7631-86-9		
Sodium acetate	1498	0	NI	0	R	0	NI	0	0	0	1	1		D	1	
Sodium acetate solutions	639												CAS No	127-09-3		
Sodium aluminate (solution)	1234	Inorg	0	0	Inorg	3	1	(0)	(0)	(3)	(3)	(3)		D	3	
Sodium aluminate solution	641												CAS No	11138-49-1		
Sodium aluminosilicate slurry	1235	Inorg	0	0	Inorg	1	0	0	0	0	1	1		S	1	
Sodium aluminosilicate slurry	643												CAS No	1344-00-9		
Sodium benzoate	1475	0	NI	0	R	1	NI	0	(0)	(1)	0	1		D	1	
Sodium benzoate	644												CAS No	532-32-1		
Sodium bicarbonate solution (less than 10%)	2386	0	NI	0	Inorg	0	0	0	0	(0)	0	0		D	0	
Sodium bicarbonate solution (less than 10%)	3558												CAS No	144-55-8		
Sodium borohydride/sodium hydroxide mixture (soln.)	1239	Inorg	0	0	Inorg	2	NI	(2)	(1)	(3)	(3)	(3)		D	3	
Sodium borohydride (15% or less)/Sodium hydroxide solution	645												CAS No			
Sodium bromide solution (less than 50%)	2387	Inorg	NI	0	Inorg	0	0	0	0	(1)	0	1	R	D	3	
Sodium bromide solution (less than 50%) (*)	3410												CAS No	7647-15-6		
Sodium carbonate	1243	Inorg	0	0	Inorg	1	NI	0	0	2	1	2		SD	2	
Sodium carbonate solution	646												CAS No	497-19-8		

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Sodium chlorate solid and solutions (50% or less)	1244	Inorg	0	0	Inorg	1	NI	1	0	(2)	1	1		D	2	
Sodium chlorate solution (50% or less)	647									CAS No	7775-09-9					
Sodium chloride solution	2521	Inorg	0	0	Inorg	0	0	0	0		1	2		D	0	
Sodium chloride solution	4229									CAS No						
Sodium dichromate solution	487	Inorg	0	0	Inorg	4	1	2	2	4	2	3	CMSsSr	D	3	
Sodium dichromate solution (70% or less)	649									CAS No	10588-01-9					
Sodium dodecylpoly(oxyethylene) sulphate solution	2531	(3)	NI	(3)	R	3	NI	(0)	(0)	(3)	(2)	(3)		D	3	
Sodium dodecylpoly(oxyethylene) sulphate solution	4240									CAS No						
Sodium dodecyl sulphate (*)	2451	0	NI	0	R	3	1	NI	NI	NI	NI	NI		NI	NI	
	3869									CAS No						
Sodium hydrogen sulphide/Ammonium sulphide(mixture)	1253	Inorg	0	0	Inorg	3	NI	(2)	(2)	(3)	(3)	(3)		D	3	
Sodium hydrosulphide/Ammonium sulphide solution	653									CAS No						
Sodium hydrogen sulphide (6% or less)/sodium carbonate (3% or less)	2262	0	NI	0	Inorg	1	NI	(0)	(0)	(1)	(1)	(1)		D	1	
Sodium hydrogen sulphide (6% or less)/Sodium carbonate (3% or less) solution	650									CAS No						
Sodium hydrogen sulphide,solutions	1252	Inorg	0	0	Inorg	1	NI	2	2	(3)	(3)	3		D	3	
Sodium hydrosulphide solution (45% or less)	652									CAS No	16721-80-5					
Sodium hydrogen sulphite,solutions	1251	Inorg	0	0	Inorg	1	NI	0	(0)	(0)	0	0		D	0	
Sodium hydrogen sulphite solution (45% or less)	651									CAS No	7631-90-5					
Sodium hydroxide (30% or less)/Sodium aluminate (25% or less) solution (#)	2486	Inorg	(0)	(0)	Inorg	3	1	0	(0)	(3)	3	(3)		D	3	
	3914									CAS No						
Sodium hydroxide solution (#)	1254	Inorg	0	0	Inorg	2	NI	1	1	3	3C	3		D	3	
Sodium hydroxide solution	654									CAS No	1310-73-2					
Sodium hypochlorite solutions containing 20% and less but more than 2% NaOCl	1256	Inorg	0	0	Inorg	(4)	(1)	0	0	1	3	3		D	3	
Sodium hypochlorite solution (15% or less)	2785									CAS No	7681-52-9					
Sodium hypochlorite solutions containing more than 20% NaOCl	1255	Inorg	0	0	Inorg	5	2	0	0	1	3	3		D	3	
Sodium hypochlorite solution (Full strength solution)	655									CAS No	7681-52-9					
Sodium methylate (**)	2443	NI	NI	(0)	(R)	(2)	NI	NI	NI	NI	NI	NI	T	DE	NI	
Sodium methylate	3822									CAS No						
Sodium Methylate (21-30% in Methanol)	2427	0	NI	0	R	1	NI	2	(2)	(3)	3	3	T	D	3	
Sodium methylate 21-30% in methanol	3608									CAS No						

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Sodium nitrate	1259	Inorg	0	0	Inorg	0	NI	(0)	(0)	(0)	(1)	(1)		SD	1	
Sodium nitrate	656												CAS No	7631-99-4		
Sodium nitrite	340	Inorg	0	0	Inorg	3	0	2	(2)	2	0	1		SD	2	
Sodium nitrite solution	658												CAS No	7632-00-0		
Sodium oxalate solution (#)	2518	0	(1)	(1)	R	2	1	1	0	(2)	(2)	2		D	2	
Sodium oxalate solution	4199												CAS No			
Sodium perborate monohydrate	2284	Inorg	NI	NI	Inorg	3	NI	1	0	(3)	2	3		NI	3	
Sodium perborate monohydrate	2948												CAS No			
Sodium petroleum sulphonate	1860	0	NI	0	(NR)	2	NI	0	(0)	(2)	1	2		S	2	
Sodium petroleum sulphonate	660												CAS No			
Sodium polyacrylate solution	1487	0	NI	0	NR	1	0	0	(0)	(1)	1	1		D	1	
Sodium poly(4+)acrylate solutions	826												CAS No			
Sodium silicate (solution)	1262	Inorg	0	0	Inorg	2	NI	1	0	(3)	3	3		D	3	
Sodium silicate solution	661												CAS No	1344-09-8		
Sodium sulphate (solution)	1499	Inorg	0	0	Inorg	0	0	0	(0)	(1)	1	1		SD	1	
Sodium sulphate solutions	662												CAS No	7757-82-6		
Sodium sulphide (solution)	1263	Inorg	0	0	Inorg	3	NI	1	1	(3)	3A	3		D	3	
Sodium sulphide solution (15% or less)	663												CAS No	1313-82-2		
Sodium sulphite (solution)	9	Inorg	0	0	Inorg	2	NI	0	(0)	(1)	0	1		D	1	
Sodium sulphite solution (25% or less)	664												CAS No	7757-83-7		
Sodium tartrate succinate/Sodium tartrate disuccinate mixtures	1771	NI	1	1	NI	1	NI	0	NI	NI	NI	NI		D	NI	
Sodium tartrates/Sodium succinates solution	665												CAS No			
Sodium thiocyanate	1264	Inorg	0	0	Inorg	2	NI	1	(0)	(1)	0	0		D	1	
Sodium thiocyanate solution (56% or less)	667												CAS No	540-72-7		
Sorbitan monooleate	2215	(5)	NI	(5)	R	3	NI	0	NI	NI	0	0		Fp	2	
Sorbitan monooleate	2408												CAS No			
Sorbitan sesquioleate	2532	0	NI	0	NR	0	1	0	NI	(2)	1	0		Fp	2	
Sorbitan sesquioleate	4241												CAS No			
Sorbitol	1265	0	NI	0	R	0	NI	0	(0)	(0)	(0)	(0)		D	0	
Sorbitol solution	668												CAS No	50-70-4		

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Sorbitol, propoxylated	2529	1	NI	1	NR	1	0	0	0	(0)	0	0		D	0	
Sorbitol, propoxylated	4238												CAS No			
Soyabean oil (containing less than 4% free fatty acids)	2320	0	NI	0	R	0	NI	0	(0)	(1)	(0)	1		Fp	2	
Soyabean oil	3050												CAS No			
Soybean oil fatty acids, methyl esters	2431	0	NI	0	R	2	NI	0	0	0	0	0		Fp	2	
Soybean Oil Fatty Acid Methyl Ester	3737												CAS No			
Styrene (monomer)	1273	3	(2)	3	R	3	NI	1	0	2	2	2	CM	FE	3	
Styrene monomer	669												CAS No	100-42-5		
Styrene butadiene rubber latex	1274	0	NI	0	NR	0	NI	0	0	(1)	0	1		D	1	
Latex: Carboxylated styrene-Butadiene copolymer; Styrene-Butadiene rubber	414												CAS No			
Sulpho hydrocarbon (C3-C88) (LOA)	1972	4	NI	4	NR	2	NI	0	0	0	0	0		Fp	2	
Sulphohydrocarbon (C3-C88)	672												CAS No			
Sulpholane	1277	0	1	1	NR	2	0	1	0	0	1	2		SD	2	
Sulpholane	673												CAS No	126-33-0		
Sulphonated polyacrylate solution	1760	NI	0	0	NI	0	NI	(0)	(0)	(0)	(0)	(0)		D	0	
Sulphonated polyacrylate solution	674												CAS No			
Sulphur	906	Inorg	0	0	Inorg	0	NI	0	0	(1)	1	1		S	1	
Sulphur (molten)	675												CAS No	7704-34-9		
Sulphuric acid	1280	0	NI	0	Inorg	2	NI	0	(0)	3	3C	3	C	D	3	
Oleum	549												CAS No	7664-93-9		
Sulphuric acid	1280	0	NI	0	Inorg	2	NI	0	(0)	3	3C	3	C	D	3	
Sulphuric acid	676												CAS No	7664-93-9		
Sulphuric acid	1280	0	NI	0	Inorg	2	NI	0	(0)	3	3C	3	C	D	3	
Sulphuric acid, spent	677												CAS No	7664-93-9		
Sulphurized fat(C14-C20) (LOA)	1853	0	NI	0	NR	1	NI	0	(0)	(1)	0	(1)		FD	1	
Sulphurized fat (C14-C20)	2257												CAS No			
Sulphurized polyolefinamide alkene(C28-C250)amine (LOA)	1855	0	NI	0	NR	0	NI	0	0	(0)	0	0		FD	0	
Sulphurized polyolefinamide alkene (C28-C250) amine	2258												CAS No			
Sunflower oil	1283	0	NI	0	R	0	NI	(0)	(0)	(1)	(0)	(1)		Fp	2	
Sunflower seed oil	2782												CAS No	8001-21-6		

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sym-Dichlorodiethyl ether	588	1	1	1	NR	1	0	2	3	4	1	3		T	SD	3
Dichloroethyl ether	233													CAS No	111-44-4	
Tall oil acids/linoleic acid dimer/polyalkylenepolyamines/dodecylbenzenesulphonic acid complexes in naphtha/isopropanol	2448	0	NI	0	NR	1	NI	0	0	(0)	0	0	CM		Fp	3
Tall oil acids/linoleic acid dimer/polyalkylenepolyamines/dodecylbenzenesulphonic acid complexes in naphtha/isopropanol	3866													CAS No		
Tall oil acids reaction products with diethylenetriamine and acrylic acid in ethylene glycol	2497	3	NI	3	R	2	NI	0	0	(1)	0	1	Ss		D	2
Tall oil acids reaction products with diethylenetriamine and acrylic acid in ethylene glycol	4131													CAS No	85586-18-1	
Tall oil acids reaction products with triethanolamine	2492	4	NI	4	NR	2	NI	0	0	(1)	1	0			Fp	2
Tall oil acids reaction products with triethanolamine	4126													CAS No	67784-78-5	
Tall oil, crude and distilled	1285	(4)	NI	(4)	(R)	(2)	NI	0	0	(0)	0	0	Ss		Fp	2
Tall oil (crude and distilled)	678													CAS No	68187-71-3	
Tall oil, distilled	2283	0	NI	0	R	0	NI	0	(0)	(0)	0	(0)			Fp	2
Tall oil, distilled	2890													CAS No		
Tall oil fatty acid (resin acids less than 20%)	1287	0	0	0	R	0	0	0	0	(1)	1	0			Fp	2
Tall oil fatty acid (resin acids less than 20%)	679													CAS No	61790-12-3	
Tall oil fatty acid, barium salt	1864	NI	NI	NI	NI	NI	NI	(1)	(0)	(2)	1	2			S	2
Tall oil fatty acid, barium salt	680													CAS No		
Tall oil fatty acids reaction products with 2-[(2-aminoethyl)amino]ethanol, di-ethyl sulphate quaternized	2508	(3)	NI	(3)	NR	5	2	NI	NI	NI	(2)	(3)	Ss		D	3
Tall oil fatty acids reaction products with 2-[(2-aminoethyl)amino]ethanol, di-ethyl sulphate quaternized	4160													CAS No	70955-34-9	
Tall oil pitch	2323	3	NI	3	NR	0	0	0	0	(0)	0	(0)			Fp	2
Tall oil pitch	3051													CAS No		
Tall oil soap (disproportionated solution)	1286	NI	NI	NI	NI	NI	NI	(1)	(0)	(2)	1	2			D	2
Tall oil soap (disproportionated) solution	681													CAS No		
Tall oil soap, crude	2432	0	NI	0	R	2	0	(0)	(0)	(3)	(3)	(3)	Ss		Fp	3
Tall oil soap, crude	3735													CAS No		
Tallow	1288	0	NI	0	R	0	NI	0	0	(0)	(0)	(0)			Fp	2
Tallow	682													CAS No	61789-21-6	
Tallowamidopropylamine Oxide in propylene glycol (70% or less) (#)	2482	NI	(2)	(2)	(R)	(4)	(2)	(1)	(1)	(3)	(3)	(3)			D	3
	4058													CAS No		

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Tallow fatty acid	1289	0	NI	0	R	0	NI	0	(0)	(0)	(0)	(0)		Fp	2	
Tallow fatty acid	684												CAS No			
1,1,2,2-Tetrachloroethane	53	2	2	2	NR	3	0	2	0	2	2	2		SD	2	
Tetrachloroethane	687												CAS No	79-34-5		
1,1,2,2-Tetrachloroethylene	1295	3	2	2	NR	(3)	2	0	0	0	2	1	C	S	3	
Perchloroethylene	564												CAS No	127-18-4		
Tetrachloromethane	1296	2	2	2	NR	3	0	0	0	0	1	1	CT	S	3	
Carbon tetrachloride	178												CAS No	56-23-5		
Tetradecanoic acid (Myristic acid)	1298	5	NI	0	R	0	NI	0	(0)	(1)	(1)	(1)		Fp	2	
n-Tetradecanoic acid	491												CAS No	544-63-8		
Tetradecanoic acid (Myristic acid)	1298	5	NI	0	R	0	NI	0	(0)	(1)	(1)	(1)		Fp	2	
Fatty acid (saturated C13+)	347												CAS No	544-63-8		
Tetraethylene glycol	1301	0	NI	0	NR	0	NI	0	0	0	1	1		D	1	
Tetraethylene glycol	688												CAS No	112-60-7		
Tetraethylene pentamine	1302	0	NI	0	NR	3	NI	0	2	(3)	3	3	Ss	D	3	
Tetraethylene pentamine	689												CAS No	112-57-2		
Tetraethyl lead	1303	4	5	5	NR	5	NI	3	2	4	2	2	NR	S	3	
Motor fuel anti-knock compound (containing lead alkyls)	464												CAS No	78-00-2		
Tetrahydrofuran	1304	0	NI	0	R	0	NI	0	(0)	0	1	2		DE	2	
Tetrahydrofuran	690												CAS No	109-99-9		
Tetrahydronaphthalene	1305	3	3	3	NR	3	NI	0	0	(2)	2	0		F	2	
Tetrahydronaphthalene	691												CAS No	119-64-2		
1,2,3,4-Tetramethylbenzene	1307	4	NI	4	NI	4	NI	0	(0)	(1)	1	(1)		F	1	
Tetramethylbenzene (all isomers)	692												CAS No	488-23-3		
Tetrapotassium pyrophosphate	2400	Inorg	0	0	Inorg	1	NI	0	NI	NI	NI	NI		D	NI	
Tetrapotassium pyrophosphate	3635												CAS No	7320-34-5		
Thioglycolic acid	2496	0	NI	0	R	2	NI	2	2	3	3B	3		D	3	
Thioglycolic acid	4130												CAS No	68-11-1		
Thixatrol plus	2210	5	NI	5	R	3	NI	0	0	0	1	1		S	1	
Thixatrol Plus	2699												CAS No			

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Titanium dioxide slurry	2080	Inorg	1	1	Inorg	1	NI	0	0	0	1	1		S	1	
Titanium dioxide slurry	2259									CAS No	13463-67-7					
Toluene	330	2	2	2	R	3	0	0	0	0	2	2	ANR	NT	E	3
Toluene	693									CAS No	108-88-3					
Toluene diisocyanate	1315	(3)	1	1	NR	2	NI	0	(0)	4	3	3	CSsSr	S	3	
Toluene diisocyanate	694									CAS No	584-84-9					
Toluidines	1316	1	1	1	R	4	2	1	0	(2)	2	2	CM		FD	3
o-Toluidine	537									CAS No						
2,4-Tolenediamine	1317	0	2	2	NR	3	0	2	2	4	2	3	CMSs	Fp	3	
Toluenediamine	695									CAS No	95-80-7					
Tolyl triazole	2292	1	NI	1	NR	2	0	1	0	(2)	(1)	2		S	2	
Tolyl triazole	696									CAS No						
Tributyl phosphate	1319	4	2	2	R	3	0	1	0	2	2	2		F	2	
Tributyl phosphate	697									CAS No	126-73-8					
1,2,3-Trichlorobenzene	2191	4	4	4	NR	4	2	1	0	(2)	2	2		S	2	
1,2,3-Trichlorobenzene (molten)	2288									CAS No						
1,2,4-Trichlorobenzene	1323	4	5	5	NR	4	1	1	0	(2)	2	2	M	S	3	
1,2,4-Trichlorobenzene	7									CAS No	120-82-1					
1,1,1-Trichloroethane	1326	2	NI	2	NR	2	NI	0	0	0	2	2		SD	2	
1,1,1-Trichloroethane	1									CAS No	71-55-6					
1,1,2-Trichloroethane	1327	2	1	1	NR	2	0	1	0	1	2	1		SD	2	
1,1,2-Trichloroethane	3									CAS No	79-00-5					
1,1,2-Trichloro-ethylene	329	2	2	2	NR	3	NI	0	0	0	2	2	MC	SD	3	
Trichloroethylene	698									CAS No	79-01-6					
Trichloromethane	1328	1	1	1	NR	2	0	2	0	2	1	1	CT	SD	3	
Chloroform	186									CAS No	67-66-3					
1,2,3-Trichloropropane	1329	2	2	2	NR	2	0	2	2	2	2	2	C	SD	3	
1,2,3-Trichloropropane	6									CAS No	96-18-4					
1,1,2-Trichloro-1,2,2-trifluoroethane	1330	3	2	2	NR	3	0	0	0	0	1	1		S	1	
1,1,2-Trichloro-1,2,2-Trifluoroethane	2									CAS No	76-13-1					

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EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Tricresyl phosphate (less than 1% ortho-isomers)	1331	5	(3)	(3)	(R)	(4)	(4)	0	1	0	1	1	N	S	2	
Tricresyl phosphate (containing less than 1% ortho-isomer)	700									CAS No	1330-78-5					
Tricresyl phosphate (more than 1% ortho-isomers)	1332	5	3	3	R	4	4	0	1	0	1	1	N	S	2	
Tricresyl phosphate (containing 1% or more ortho-isomer)	699									CAS No	1330-78-5					
Tricyanohexane	2530	0	NI	0	NR	1	NI	1	0	(1)	0	0		SD	1	
Tricyanohexane	4239									CAS No						
Tridecane	1333	0	NI	0	NI	0	NI	0	0	(1)	1	0		Fp	2	
Tridecane	701									CAS No	629-50-5					
Tridecanoic acid	1334	5	NI	5	(R)	3	NI	(0)	(0)	(1)	(1)	(1)		Fp	2	
Tridecanoic acid	702									CAS No	638-53-9					
Tridecyl acetate	1768	5	NI	5	NI	0	NI	0	(0)	(2)	2	2		F	2	
Tridecyl acetate	703									CAS No	1072-33-9					
Triethanolamine	1338	0	0	0	R	1	NI	0	0	(2)	1	2		D	2	
Triethanolamine	704									CAS No	102-71-6					
3-(Triethoxysilyl)propylamine	2445	1	1	1	R	1	NI	1	0	(3)	3B	3	Ss	D	3	
3-(Triethoxysilyl)propylamine	3824									CAS No	919-30-2					
Triethylamine	1339	1	0	0	R	3	0	1	2	2	2	3		D	3	
Triethylamine	706									CAS No	121-44-8					
1,3,5-Triethylbenzene	1340	5	NI	5	NI	4	NI	0	(0)	(2)	(2)	(1)		F	2	
Triethylbenzene	707									CAS No	25340-18-5					
Triethylene glycol	1341	0	NI	0	R	0	0	0	0	0	0	0		D	0	
Triethylene glycol	708									CAS No	112-27-6					
Triethylenetetramine	1346	0	NI	0	NR	3	NI	0	2	(3)	3	3	Ss	D	3	
Triethylenetetramine	709									CAS No	112-24-3					
Triethylenetetramine/2-piperazine-1-ylethylamine mixtures (#)	2456	0	NI	0	NR	2	NI	0	2	(3)	3	3	Ss	D	3	
	3872									CAS No						
Triethyl phosphate	1348	0	0	0	NR	1	0	1	0	0	(2)	(2)		D	2	
Triethyl phosphate	705									CAS No	78-40-0					
Triethyl phosphite	1349	0	NI	0	R	1	NI	1	0	2	1	2	Ss	FE	2	
Triethyl phosphite	710									CAS No	122-52-1					

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EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Triglycerides, C16-C18 and C18 unsaturated, reclaimed (UCO)	2470	(5)	NI	(5)	R	(0)	(0)	(0)	(0)	(1)	(1)	(1)		Fp	2	
Used cooking oil (Triglycerides, C16-C18 and C18 unsaturated) (m) (n)	4023												CAS No	68990-65-8		
Triglycerides, C16-C18 and C18 unsaturated, reclaimed (UCO)	2470	(5)	NI	(5)	R	(0)	(0)	(0)	(0)	(1)	(1)	(1)		Fp	2	
Used cooking oil (m)	3974												CAS No	68990-65-8		
Triisopropanolamine	1370	0	0	0	NR	1	0	1	0	0	(2)	3		FD	3	
Triisopropanolamine	711												CAS No	122-20-3		
Triisopropylated phenyl phosphates	1375	5	5	5	R	4	NI	0	0	0	0	0		S	0	
Triisopropylated phenyl phosphates	712												CAS No	68937-41-7		
Trimethylacetic acid	1350	1	1	1	R	2	NI	1	1	(2)	2	2		Fp	2	
Trimethylacetic acid	714												CAS No	75-98-9		
Trimethylamine	1353	0	NI	0	R	1	NI	1	0	2	3	3		DE	3	
Trimethylamine solution (30% or less)	715												CAS No	75-50-3		
1,2,3-Trimethyl benzene	1354	3	3	3	NR	4	0	0	0	1	2	1		FE	2	
Trimethylbenzene (all isomers)	716												CAS No	526-73-8		
2,4,4-Trimethyl hexamethylene diamine	1359	1	NI	1	NI	NI	NI	1	0	(3)	2	3	Ss	D	3	
Trimethylhexamethylenediamine (2,2,4- and 2,4,4-isomers)	718												CAS No	25620-58-0		
Trimethyl hexamethylene diisocyanate	1360	0	NI	0	NI	3	NI	0	NI	NI	NI	NI	SsSr	NI	2	
Trimethylhexamethylene diisocyanate (2,2,4- and 2,4,4-isomers)	717												CAS No	28679-16-5		
Trimethylol propane polyethoxylate	1362	NI	NI	NI	NR	1	NI	0	0	NI	NI	NI		NI	NI	
Trimethylolpropane polyethoxylate	719												CAS No			
Trimethylol propane, propoxylated	2274	0	NI	0	(NR)	1	0	0	0	(1)	0	1		SD	1	
Trimethylol propane propoxylated	2870												CAS No			
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate	1845	4	NI	4	NR	0	NI	0	0	(1)	1	0		F	1	
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate	26												CAS No			
2,2,4-Trimethyl-1,3-pentanediol monoisobutyrate	1364	3	NI	3	NI	2	NI	0	0	(1)	1	1		Fp	2	
2,2,4-Trimethyl-1,3-pentanediol-1-isobutyrate	27												CAS No	25264-77-4		
Trimethyl phosphite	1365	0	NI	0	R	NI		S	NI							
Trimethyl phosphite	713												CAS No	121-45-9		
1,3,5-Trioxane	1844	0	NI	0	NI	0	NI	0	0	0	0	1	R	SD	3	
1,3,5-Trioxane	10												CAS No	110-88-3		

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EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Tripropylene glycol	1372	0	0	0	R	0	0	0	0	(0)	0	0		D	0	
Tripropylene glycol	720										CAS No	24800-44-0				
Trixylenyl phosphate	1377	5	4	4	NR	4	1	(0)	(1)	(0)	(1)	(1)	R	S	3	
Trixylyl phosphate	721										CAS No	25155-23-1				
Tung oil	1378	0	NI	0	R	(2)	NI	(0)	(0)	(1)	(0)	(1)		Fp	2	
Tung oil	2784										CAS No					
Turpentine (wood)	1379	4	NI	4	NI	4	NI	0	(0)	1	(2)	2	SsA	(T)	D	2
Turpentine	722										CAS No	8006-64-2				
Undecanoic acid	1381	4	NI	4	(R)	3	NI	(0)	(0)	(2)	1	(2)		Fp	2	
Undecanoic acid	723										CAS No	112-37-8				
1-Undecanol	1382	4	NI	4	R	4	NI	0	0	(2)	2	(1)		Fp	2	
Undecyl alcohol	724										CAS No	112-42-5				
1-Undecene	1383	5	NI	5	NR	4	NI	(0)	(0)	(1)	(2)	(1)	A	F	3	
1-Undecene	24										CAS No	821-95-4				
Urea	1384	0	0	0	R	1	NI	0	0	(1)	1	(1)		D	1	
Urea solution	726										CAS No	57-13-6				
Urea	1384	0	0	0	R	1	NI	0	0	(1)	1	(1)		D	1	
Urea	2627										CAS No	57-13-6				
Urea/Ammonium mono and dihydrogen phosphate/ Potassium chloride solution	1386	0	0	0	R	3	2	NI	NI	NI	NI	NI		NI	NI	
Urea/Ammonium mono- and di-hydrogen phosphate/Potassium chloride solution	727										CAS No					
Urea/Ammonium nitrate solution (containing < 1% aq. ammonia)	1387	0	NI	0	R	(2)	(0)	0	0	(1)	(1)	(1)		D	1	
Urea/Ammonium nitrate solution	729										CAS No					
Urea-ammonium phosphate solutions	2179	0	0	0	R	3	2	(0)	(0)	(2)	(2)	(2)		D	2	
Urea/Ammonium phosphate solution	730										CAS No					
Urea-formaldehyde resin solution	1388	NI	NI	NI	NI	1	NI	1	1	NI	NI	NI	Ss	NI	2	
Urea formaldehyde resin solution	725										CAS No					
Vegetable acid oils	2371	0	NI	0	R	0	NI	(0)	(0)	(1)	(1)	(1)		Fp	2	
Vegetable acid oils (m)	3138										CAS No					
Vegetable oils fatty acid distillates	2369	0	NI	0	R	0	NI	(0)	(0)	(0)	(0)	(0)		Fp	2	
Vegetable fatty acid distillates (m)	3137										CAS No					

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Vegetable protein solution,hydrolyzed	1398	0	NI	0	R	0	NI	(0)	(0)	(0)	(0)	(0)	(0)	D	0	
Vegetable protein solution (hydrolysed)	734													CAS No		
Vinyl acetate	1400	0	NI	0	R	2	NI	1	0	2	1	1	C	ED	3	
Vinyl acetate	735													CAS No	108-05-4	
Vinyl ethyl ether	1405	1	NI	1	NR	1	NI	0	0	0	1	1		E	2	
Vinyl ethyl ether	736													CAS No	109-92-2	
Vinylidene chloride	1406	2	1	1	NR	2	NI	2	0	(2)	2	2	M	SD	3	
Vinylidene chloride	738													CAS No	75-35-4	
Vinyl neodecanoate	1404	5	NI	5	NR	3	NI	0	0	(3)	3	3		F	3	
Vinyl neodecanoate	737													CAS No	45115-34-2	
Vinyl toluenes	1409	3	3	3	NR	3	NI	0	0	2	2	1	NM	(T)	F	3
Vinyltoluene	739													CAS No	25013-15-4	
White spirit, low (15-20%)aromatic	1411	(4)	NI	(4)	(R)	3	NI	(0)	(0)	(2)	(1)	(2)	A	F	3	
White spirit, low (15-20%) aromatic	742													CAS No		
Wood lignin with sodium acetate/oxalate	2403	NI	NI	(0)	NR	(0)	NI	0	(0)	(1)	(1)	(1)		D	1	
Wood lignin with sodium acetate/oxalate	3638													CAS No		
Xylene (mixed isomers)	1408	3	NI	3	NR	3	0	0	0	0	2	2		(T)	FE	2
Xylenes	743													CAS No	133-20-7	
Xylenes/Ethyl benzene (10% or more) mixture	2269	3	2	2	NR	3	1	(0)	(0)	(2)	(2)	(2)		(T)	FE	2
Xylenes/ethylbenzene (10% or more) mixture	2337													CAS No		
Xylenols (mixtures)	1422	2	NI	2	R	3	NI	1	2	(3)	3	3		(T)	Fp	3
Xylenol	744													CAS No	1300-71-6	
Yeast Extract Solution with Propylene Glycol (25% or less)	2396	NI	0	0	R	0	NI	0	0	(1)	0	1		D	1	
Stabilized Yeast Extract Solution	3631													CAS No	8013-01-2	
Zinc alkaryl dithiophosphate (C7-C16) (LOA)	1977	0	NI	0	NR	3	NI	0	0	(0)	(0)	(0)		Fp	2	
Zinc alkaryl dithiophosphate (C7-C16)	745													CAS No		
Zinc alkenylcarboxamide (LOA)	2053	NI	0	0	NR	0	NI	0	0	(1)	1	(1)		Fp	2	
Zinc alkenyl carboxamide	746													CAS No		
Zinc alkyl dithiophosphate	1428	5	NI	5	NR	3	NI	0	0	0	2	2		S	2	
Zinc alkyl dithiophosphate (C3-C14)	747													CAS No		

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Zinc bromide solutions	2227	Inorg	4	4	Inorg	3	Ni	1	(2)	(3)	3B	3	Ss	D	3	
Zinc bromide solutions	2617												CAS No			
Zinc chloride	1425	Inorg	4	4	Inorg	4	1	(1)	(1)	(3)	(3)	(3)		D	3	
Zinc chloride	2869												CAS No	7646-85-7		
Zinc chloride	1425	Inorg	4	4	Inorg	4	1	(1)	(1)	(3)	(3)	(3)		D	3	
Drilling brines (containing zinc chloride)	307												CAS No	7646-85-7		

ANNEX 5

PROVISIONAL AGENDA FOR THE FIFTY-EIGHTH SESSION OF THE GESAMP/EHS WORKING GROUP

- 1 Adoption of the agenda
 - 2 Outcome of other bodies
 - 3 Evaluation of new substances
 - 4 Re-evaluation of substances and consideration of issues related to evaluations
 - 5 Classification issues
 - 6 Consolidation of existing data files
 - 7 Communication and publication
 - 8 Any other business
 - 9 Consideration and adoption of the report
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