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PPR.1/Circ.3  
10 June 2016

## **HAZARD EVALUATION OF SUBSTANCES TRANSPORTED BY SHIPS**

### **Report of the fifty-third session of the GESAMP/EHS Working Group on the Evaluation of the hazards of harmful substances carried by ships**

The report of the fifty-second session of the GESAMP/EHS Working Group on the Evaluation of the hazards of harmful substances carried by ships, held from 23 to 27 May 2016 (EHS 53/9), is attached for information.

Any comments would be welcome and should be addressed to:

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WORKING GROUP ON THE EVALUATION  
OF THE HAZARDS OF HARMFUL  
SUBSTANCES CARRIED BY SHIP  
53rd session  
Agenda item 9

EHS 53/9  
27 May 2016  
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## REPORT OF THE FIFTY-THIRD SESSION

Section	Page No.
1 INTRODUCTION	4
2 OUTCOME OF OTHER BODIES	4
3 EVALUATION OF NEW SUBSTANCES	5
4 CORRESPONDENCE WITH INDUSTRY/GOVERNMENT AND CONSIDERATION OF ISSUES RELATED TO EVALUATIONS	9
5 CLASSIFICATION ISSUES	13
6 CONSOLIDATION OF EXISTING DATA FILES	15
7 COMMUNICATION AND PUBLICATION	16
8 ANY OTHER BUSINESS	16
9 CONSIDERATION AND ADOPTION OF THE REPORT	17

## LIST OF ANNEXES

ANNEX 1	LIST OF PARTICIPANTS ATTENDING THE FIFTY-THIRD SESSION OF THE GESAMP/EHS WORKING GROUP
ANNEX 2	MATTERS ARISING FROM IMO
ANNEX 3	OUTCOME OF GESAMP 42
ANNEX 4	GESAMP HAZARD PROFILES FOR NEW SUBSTANCES SUBMITTED FOR EVALUATION TO GESAMP/EHS 53
ANNEX 5	UPDATED GESAMP COMPOSITE LIST
ANNEX 6	PROVISIONAL AGENDA FOR THE FIFTY-FOURTH SESSION OF THE GESAMP/EHS WORKING GROUP

## **1 INTRODUCTION**

1.1 The fifty-third session of the EHS Working Group on the Evaluation of the Hazards of Harmful Substances Carried by Ships was held at the BfR (Federal Institute for Risk Assessment) in Berlin, Germany from 23 to 27 May 2016 under the chairmanship of Dr. Thomas Höfer. 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, as amended, based on proposals by the Chairman.

## **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-second session of the GESAMP/EHS Working Group:

- .1 the twenty-first meeting of the Working Group on the Evaluation of Safety and Pollution Hazards of Chemicals (ESPH 21), that met from 26 to 30 October 2015 (PPR 3/3/2);
- .2 the Evaluation of Safety and Pollution Hazards (ESPH) Working Group also met during the third meeting of the PPR Sub-Committee, which took place from 15 to 19 February 2016 (PPR 3/WP.3);
- .3 the sixty-ninth session of the Marine Environment Protection Committee (MEPC 69), that met from 18 to 22 April 2016 (MEPC 69/20); and
- .4 the thirtieth session of the Sub-Committee of Experts on the Globally Harmonized System of Classification and Labelling of Chemicals (GHS 30), which took place from 9 to 11 December 2015.

2.2 The group noted the information presented and agreed to take action under the relevant agenda items, as appropriate. A summary of the outcome of IMO meetings on matters of relevance to the work of the GESAMP/EHS Working Group is set out in annex 2.

### **Outcome of UN SCEGHS 30**

2.3 As instructed by EHS 52, the Secretariat, in collaboration with the Chairman, prepared two documents which were submitted to the 30th session of the Sub-Committee of Experts on the GHS. The first document requested clarification on the applicability of the GHS criteria to aspiration toxicity category 1, based on kinematic viscosity data to chemical groups other than pure hydrocarbon chemicals, noting inconsistencies in the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). Based on this request, the Sub-Committee agreed to the establishment of a correspondence group, led by IMO, together with Finland, the International Paint and Printing Ink Council (IPPIC) and the GESAMP/EHS Chairman to progress this work and submit a proposal to the Sub-Committee aimed at developing such an interpretation.

2.4 The GHS Sub-Committee also noted the information (INF) document submitted by IMO on behalf of GESAMP/EHS providing information from Report and Studies No. 64 relating to floating substances and agreed that, although no work was envisaged on floating substances at this time, concurred that this would be a useful base document should any future criteria be developed by the GHS related to floating substances.

2.5 The group noted these developments and thanked the Secretariat for submitting these documents and looked forward to a report on further developments accordingly.

### **Activities of GESAMP**

2.6 The group noted the report presented by the Chairman on the outcome of the forty-third session of GESAMP, which took place from 31 August to 3 September 2015 in Paris, France, hosted by the Intergovernmental Oceanic Commission of the United Nations Educational, Scientific and Cultural Organization (IOC-UNESCO). A summary of the outcome of the meeting is set out in annex 3.

### **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 information requirements set out in the GESAMP/EHS Product Data Reporting Form, was 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 end-point concerned or, as a worst case, no full hazard profile being issued for the chemical under review.

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

.1	Ethylene glycol/sodium alkyl carboxylates mixture	EHS 2475
.2	Ethylene glycol/sodium alkyl carboxylates/borax mixture	EHS 2477
.3	Lauroamidopropyl betaine solution	EHS 2479
.4	Tallowamidopropylamine Oxide in propylene glycol (70% or less)	EHS 2482
.5	Long chain alkylphenol (C14-C18)	EHS 2478
.6	Long chain alkylphenol (C18-C30)	EHS 2476
.7	Alkyl (C10-C15 rich) phenol poly (4-12) ethoxylate	EHS 2480
.8	Polyalkene sulphonic acid, sodium salt	EHS 2481
.9	Bismuth oxide	EHS 2483
.10	Potassium iodide	EHS 2484
.11	Cinnamaldehyde	EHS 2485
.12	Sodium hydroxide (30% or less)/Sodium aluminate (25% or less) solution	EHS 2486
.13	Fish protein concentrate (containing 4% or less formic acid)	EHS 2487
.14	Alcohol (C10-C18) poly (7) ethoxylate	EHS 2488

3.3 The group, in assessing the submitted products, made the following observations and 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 4.

#### **EHS 2475 Ethylene glycol (>85%)/sodium alkyl carboxylates mixture**

3.4 The group noted that a comprehensive set of test data had been submitted for this substance and assigned a GESAMP Hazard Profile accordingly. Having considered a generic name proposed for the product, the group agreed to add a minimum percentage value, i.e. >85%, to the entry to ensure greater precision in the name. Having also noted the low vapour pressure of the mixture, the group agreed to append a hash mark (#) to the entry, denoting that a lower acute inhalation risk may be considered for the purposes of risk management of exposure to the vapour.

<i>Rating</i>	A1a=NI C1=1 E2=D	A1b=(1) C2=(1) E3=2	A1=(1) C3=(1)	A2=R D1=0	B1=1 D2=0 (#)	B2=NI D3=T to the entry
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#### **EHS 2477 Ethylene glycol (>75%)/sodium alkyl carboxylates/borax mixture**

3.5 In considering the submission, the group made a minor revision to the name of the substance by adding the concentration limit, i.e. >75%, with a view to providing more precision in the description of the product. Having considered the data submitted, the group assigned a GESAMP Hazard Profile accordingly. Having also noted the low vapour pressure of the mixture, the group agreed to append a hash mark (#) to the entry, denoting that a lower acute inhalation risk may be considered for the purposes of risk management of exposure to the vapour.

<i>Rating</i>	A1a=NI C1=1 E2 =D	A1b=(1) C2=(1) E3 =3	A1=(1) C3=(2)	A2=R D1=(1)	B1=1 D2=(1)	B2=NI D3= RT (#)
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#### **EHS 2479 Lauroamidopropyl betaine solution**

3.6 In considering the submission, the group noted that a full set of data had been provided for the product and assigned a GESAMP Hazard Profile accordingly. Having also noted the low vapour pressure of the mixture, the group agreed to append a hash mark (#) to the entry, denoting that a lower acute inhalation risk may be considered for the purposes of risk management of exposure to the vapour.

<i>Rating</i>	A1a=(4) C1=(0)	A1b=(2) C2=(0)	A1=(2) C3=(3)	A2=R D1=(1)	B1=(4) D2=(3)	B2=(1) D3= blank (#)
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#### **EHS 2482 Tallowamidopropylamine oxide in propylene glycol (70% or less)**

3.7 The group considered the submission and noting that a full set of data had been provided, assigned a GESAMP Hazard Profile accordingly. Having also noted the low vapour pressure of the mixture, the group agreed to append a hash mark (#) to the entry, denoting that a lower acute inhalation risk may be considered for the purposes of risk management of exposure to the vapour.

<i>Rating</i>	A1a=NI C1=(1) E2=D	A1b=(2) C2=(1) E3=3	A1=(2) C3=(3)	A2=(R) D1=(3)	B1=(4) D2=(3)	B2=(2) D3= blank (#)
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**EHS 2478 Long chain alkylphenol (C14-C18)**

3.8 Having considered the submission, the group confirmed the name of the substance as submitted and having noted that a full set of data had been provided, assigned a GESAMP Hazard Profile accordingly. Having also noted the low vapour pressure of the mixture, the group agreed to append a hash mark (#) to the entry, denoting that a lower acute inhalation risk may be considered for the purposes of risk management of exposure to the vapour.

<i>Rating</i>	A1a=(0) C1=(0) E2=Fp	A1b=NI C2=(0) E3=2	A1=(0) C3=(2)	A2=NR D1=(2)	B1=(0) D2=(0)	B2=(0) D3= blank (#) to the entry
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**EHS 2476 Long chain alkylphenol (C18-C30)**

3.9 In considering the submission, the group confirmed the name of the substance, as proposed, and having noted that a full set of data had been provided, assigned a GESAMP Hazard Profile accordingly. Having also noted the low vapour pressure of the mixture, the group agreed to append a hash mark (#) to the entry, denoting that a lower acute inhalation risk may be considered for the purposes of risk management of exposure to the vapour.

<i>Rating</i>	A1a=(0) C1=(0) E2=Fp	A1b=NI C2=(0) E3=2	A1=(0) C3=(2)	A2=(NR) D1=(2)	B1=(1) D2=(0)	B2=(0) D3=blank (#) to the entry
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**EHS 2480 Alkyl (C10-C15, C12 rich) phenol poly (4-12) ethoxylate**

3.10 Having considered the submission, the group considered the data provided for the product and assigned a GESAMP Hazard Profile accordingly. Having also noted the low vapour pressure of the mixture, the group agreed to append a hash mark (#) to the entry, denoting that a lower acute inhalation risk may be considered for the purposes of risk management of exposure to the vapour.

<i>Rating</i>	A1a=(5) C1=(0) E2=SD	A1b=(4) C2=(0) E3=2	A1=(4) C3=(2)	A2=(NR) D1=(2)	B1=(0) D2=(1)	B2=NI D3=blank (#) to the entry
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**EHS 2481 Polyalkene sulphonic acid (C20-C28), sodium salt**

3.11 In considering the submission, the group agreed that information on the carbon chain length should be included in the entry, in order to provide more clarity in the description of the product. In addition, the group agreed that, in line with the UN naming protocol, "sulfonic" was amended to "sulphonic" in the entry. Having reviewed the data submitted, the group assigned a GESAMP Hazard Profile accordingly. Having also noted the low vapour pressure of the mixture, the group agreed to append a hash mark (#) to the entry, denoting that a lower acute inhalation risk may be considered for the purposes of risk management of exposure to the vapour.

<i>Rating</i>	A1a=(5) C1=(1) E2=Fp	A1b=(4) C2=(0) E3=2	A1=(4) C3=(2)	A2=(NR) D1=(2)	B1=1 D2=(2)	B2=0 D3=blank (#) to the entry
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**EHS 2483      Bismuth oxide**

3.12 The group considered the submission for bismuth oxide and noting that a full set of data had been provided, assigned a GESAMP Hazard Profile accordingly.

<i>Rating</i>	A1a=Inorg C1=0 E2=S	A1b=(0) C2=(0) E3=0	A1=(0) C3=0	A2=Inorg D1=0	B1=(0) D2=0	B2=(0) D3=blank
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**EHS 2484      Potassium iodide**

3.13 The group considered the submission for potassium iodide and noting that a full set of data had been provided, assigned a GESAMP Hazard Profile accordingly.

<i>Rating</i>	A1a=Inorg C1=0 E2=D	A1b=(0) C2=0 E3=2	A1=(0) C3=(0)	A2=Inorg D1=0	B1=1 D2=0	B2=0 D3=T
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**EHS 2485      Cinnamaldehyde**

3.14 In considering the submission, the group noted that a full set of data had been provided and assigned a GESAMP Hazard Profile accordingly.

<i>Rating</i>	A1a=1 C1=1 E2=SD	A1b=(2) C2=1 E3=2	A1=(2) C3=(2)	A2=R D1=2	B1=2 D2=1	B2=0 D3=Ss
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**EHS 2486      Sodium hydroxide (30% or less)/Sodium aluminate (25% or less) solution**

3.15 Having considered the product and noting that a full set of data had been submitted, the group assigned a GESAMP Hazard Profile, as set out below. In assigning a B1 rating of 5 for aquatic toxicity, the group agreed that this rating, although high, was consistent with the studies provided. The group further noted that testing carried out in seawater rather than freshwater may result in a lower B1 rating, due to the buffering effects of sea water (see Report and Studies No.64, section 4.2.13 (p.35)). Having also noted the low vapour pressure of the mixture, the group agreed to append a hash mark (#) to the entry, denoting that a lower acute inhalation risk may be considered for the purposes of risk management of exposure to the vapour.

<i>Rating</i>	A1a=Inorg C1=0 E2=D	A1b=(0) C2=(0) E3=3	A1=(0) C3=(3)	A2=Inorg D1=3	B1=5 D2=(3)	B2=0 D3=blank (#) to the entry
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**EHS 2487      Fish silage protein concentrate (containing 4% or less formic acid)**

3.16 The group considered the submission and having reviewed the data provided, assigned a GESAMP Hazard Profile for the product. The group agreed to modify the name to "Fish silage protein concentrate (containing 4% or less formic acid)" to better reflect the nature of the product. The group also noted some contradictions in the physical and chemical data submitted, notably with regard to solubility and density, and consequently assigned the more conservative rating of Fp column E2.

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

**EHS 2488      Alcohol (C10-C18) poly (7) ethoxylate**

3.17 The group considered the submission and, having reviewed the data provided, assigned a GESAMP Hazard Profile for the product. Having also noted the low vapour pressure of the mixture, the group agreed to append a hash mark (#) to the entry, denoting that a lower acute inhalation risk may be considered for the purposes of risk management of exposure to the vapour.

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

**Additional considerations**

**EHS 761      Ethylene glycol**

3.18 In considering data submitted by industry for two new entries for ethylene glycol mixtures (EHS 2475 and EHS 2477), the group also reviewed the profile for ethylene glycol. A "T" rating for column D3 was accordingly assigned and, as a consequence, the E3 rating was also amended to 2.

<i>Amended rating</i>	D3=T	E3=2
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**Alkylphenols**

3.19 In reviewing the two alkylphenol submissions to this session (EHS 2476 and EHS 2478, see above) and having assigned GESAMP Hazard Profiles for these substances, the group noted potential inconsistencies in the ratings of structurally similar products on the GESAMP Composite List and agreed to review these at EHS 54, with a view to ensuring a consistent approach in the assessment of all substances within the product family.

**4      CORRESPONDENCE WITH INDUSTRY/GOVERNMENT AND CONSIDERATION OF ISSUES RELATED TO EVALUATIONS**

4.1 The group recalled that as part of its work it routinely considered requests from industry and industry groups, as well as government organizations, for the re-assessment of products, based on the submission of new data or new scientific insights into substances on the GESAMP Composite List that may result in a change to 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 communication of any amendments relating to such matters to the attention of IMO (i.e. the ESPH Working Group of the PPR Sub-Committee).

4.3 The group considered the following products:

.1	Dimethoxymethane	EHS 2405
.2	Polyethylene polyamines	EHS 2367
.3	Tall oil fatty acid (resin acids <2%)	EHS 1287
.4	tert-Amyl methyl ether	EHS 2141
.5	Ethoxylated tallow amine (>95%)	EHS 2313
.6	Octanoic acid	EHS 1074
.7	1,2-Butylene oxide	EHS 403
.8	Titanium dioxide (64-77% solution in water)	EHS 2080
.9	Alkyl (C12-C14) polyglucoside solution (max 55% active material)	EHS 2137
.10	Alkanes (C10-C26), linear and branched	EHS 2392
.11	Isophorone diisocyanate	EHS 881
.12	1,5,9-Cyclododecatriene	EHS 534
.13	2,6-Diaminohexanoic acid phosphonate mixed salts solution	EHS 2469
.14	(Polyisobutene) amino products in aliphatic hydrocarbons	EHS 2455
.15	Phosphoric acid	EHS 1138
.16	Fumaric adduct of rosin (water dispersion)	EHS 810
.17	n-Octyl mercaptan	EHS 2461
.18	n-Dodecyl mercaptan	EHS 2462
.19	3-(Triethoxsilyl) propylamine	EHS 2445
.20	Triethylenetetramine/2-piperazine-1-ylethylamine mixtures	EHS 2456
.21	alpha-Pinene	EHS 40

4.4 The results of the group's discussions on the respective substances are set out below. Any agreed modifications to the assigned hazard profiles for these substances are highlighted in the revised GESAMP/EHS Composite List, set out in annex 5.

**EHS 2405      Dimethoxymethane**

4.5 Following a historical review of the background to this substance and noting that it had never been formally evaluated by the group, as the company had not paid the evaluation fee, the group concurred that this product entry should be deleted from the Composite List.

**EHS 2367      Polyethylene polyamines**

4.6 Having reviewed the data on file for this product, the group agreed that the E3 rating should be amended from 0 to 3, in accordance with the rules set out in table 16 of Reports and Studies No. 64.

*Amended rating*      E3=3

**EHS 1287      Tall oil fatty acid (resin acids <2%)**

4.7 The group, having noted that the EHS name was not consistent with the IBC Code entry for the associated product (in terms of the concentration value identified in the entry) and having reviewed the data on file, concurred that the EHS name should be amended to Tall oils fatty acid (resin acids <20%).

*Amended name*      Tall oils fatty acid (resin acids <20%)

**EHS 2141      tert-Amyl methyl ether**

4.8 The group undertook a review of the C3 rating based on the submission of more recent test data. Having considered the information submitted and noting that actual test data were now available, the group amended the C3 rating from (2) to 2.

*Amended rating*      C3=2

**EHS 2313      Ethoxylated tallow amine (>95%)**

4.9 The group reviewed this product, with particular consideration given to the D3 and E2 ratings. Having considered the data submitted, the group noted that the product name was very general and referred to a range of products with physical and chemical properties that varied considerably from product to product. Based on the data considered, it was determined that the majority of the products demonstrated persistent floater properties and as such, the group agreed that the E2 rating of Fp should be retained. The group also noted, that the product was a skin sensitizer and therefore agreed to add Ss to column D3.

*Amended rating*      D3=Ss

**EHS 1074      Octanoic acid**

4.10 The group, having noted that the CAS number for Octanoic acid was incorrect in the Composite List, agreed to update the entry with the correct CAS number, 124-07-2.

**EHS 403      1,2-Butylene oxide**

4.11 The group, having considered more recent data available for skin and eye irritation for this product, agreed that the D1 and D2 ratings of 1 should both be modified to 2.

*Amended rating*      D1=2      D2=2

**EHS 2080      Titanium dioxide (64 - 77% solution in water)**

4.12 The group considered a request to review the E2 rating for this substance, which was currently recorded as NI. Having considered the submitted data, the group concurred that the E2 rating should be amended to S based on new available data. The group further noted that

since the product was essentially insoluble, the name of the entry did not adequately reflect the substance and therefore agreed that this should be renamed to "Titanium dioxide slurry", which would also harmonize the name of the entry with that set out in the IBC Code.

*Amended rating*      E2=S      *Amended name*      Titanium dioxide slurry

**EHS 2137      Alkyl (C12-C14) polyglucoside solution (max 55% active material)**

4.13 The group, having considered the double entry for this product in the Composite List, determined that one entry could be deleted, as the second entry was associated with a tripartite agreement that had expired and was therefore no longer needed.

**EHS 2392      Alkanes (C10-C26), linear and branched**

4.14 The group noted that there was a double entry for this product in the Composite List. Having reviewed the two entries, the group agreed to retain both given that the profile now related to two different products in the MEPC.2/Circular, with different flashpoints.

**EHS 881      Isophorone diisocyanate**

4.15 The group, having agreed to review the aspiration hazard for this product at EHS 52, considered the information on file and determined that the "A" rating under column D3 should be deleted.

*Amended rating*      Delete "A" from D3

**EHS 534      1,5,9-Cyclododecatriene**

4.16 The group, having agreed to review the aspiration hazard for this product at EHS 52, considered the information on file and determined that no change was needed and that the D3 rating of "A" should be retained for this product.

**EHS 2469      2,6-Diaminohexanoic acid phosphonate mixed salts solution**

4.17 Further to a request received from industry, the group reviewed the C3 and D3 ratings for this product. Having considered the information submitted, the group noted that the information provided for vapour pressure indicated that the mixture was non-volatile.

4.18 The group, however, noted that in order to address exposure to aerosols or mists, the extrapolation method had been used to assign an estimated value of (3) in column C3 and, as a result, was of the view that this rating should remain unchanged.

4.19 Having also noted the low vapour pressure of the mixture, the group agreed to append a hash mark (#) to the entry, denoting that a lower acute inhalation risk may be considered for the purposes of risk management of exposure to the vapour. In addition, the group agreed to delete the "T" in the D3 column, given that it referred to respiratory irritation, which is not covered by the T rating according to Reports and Studies No. 64.

**EHS 2455      (Polyisobutene) amino products in aliphatic hydrocarbons**

4.20 Further to a request from industry, the group reviewed the profile for this product based on a proposed variation in the concentration of solvents in the formulation. Having considered the possible implications of such a concentration change, the group concluded

that, based on expert opinion, the existing profile, as initially assigned, would remain valid for the new proposed formulation.

**EHS 1138      Phosphoric acid**

4.21 The group, having considered actual test data submitted by industry for the product, agreed that the existing C1 and C2 ratings of (3) should be modified to 1.

*Amended rating*      C1=1      C2=1

**Review of Ss ratings**

4.22 The group considered a number of substances with a view to reviewing the assigned Ss ratings in the D3 column. The D3 rating of Ss was reconfirmed for all products considered, as follows:

.1	EHS 810	Fumaric adduct of rosin (water dispersion)
.2	EHS 2461	n-Octyl mercaptan
.3	EHS 2462	n-Dodecyl mercaptan
.4	EHS 2445	3-(Triethoxsilyl)propylamine
.5	EHS 2456	Triethylenetetramine/2-piperazine-1-ylethylamine mixtures
.6	EHS 40	alpha-Pinene

**5      CLASSIFICATION ISSUES**

**Mineral oils**

5.1 The group, having noted the request made by ESPH at PPR 3 to review the mineral oils for the purposes of the mixture calculation, considered how to undertake this work.

5.2 The group recalled that, in general, it does not evaluate products that are covered under MARPOL Annex I, notably petroleum products. However, it has, on occasion, generated hazard profiles for some petroleum products, at the request of ESPH, in particular for gasoline/petrol and diesel (automotive). These were published in the report of GESAMP/EHS 47 (BLG.1/Circ.30), but were not included in the GESAMP Composite List. The group noted, however, that the GESAMP Composite List did contain profiles for some petroleum products, such as Pyrolysis gasoline and White Spirit, which are oil distillation fractions, like gasoline and diesel oil.

5.3 Mineral oils are, however, often included as a component in mixtures that are classified and shipped under MARPOL Annex II, which regulates the transport of bulk liquid chemicals. Currently, the assignment of carriage requirements for mixtures is determined using a mixture calculation and, when these include mineral oil, a set component factor is assigned to the mineral oil component for the purposes of the calculation, as set out in MEPC.1/Circ.512.

5.4 In considering the request by ESPH to review mineral oils for the purposes of the mixture calculation, given the revision of the aforementioned circular by ESPH, the group noted that "mineral oils" represented a large number of substances with widely differing characteristics (variable toxicity, properties and behaviours) and that a review of such substances would require significant time and effort. As such, the group requested ESPH to provide further clarification on the specific type/category of mineral oil of interest and suggested that the CONCAWE categorization of mineral oils may be a helpful reference for identifying the specific mineral oils to be considered.

5.5 Noting the feedback from the Secretariat indicating that the mineral oils of interest to ESPH were likely those used in lube oil additives, the group agreed that, should this be the case, it could potentially develop a profile (or several profiles) for these specific types of mineral oils. However, in order to do so, it would require the submission of data from industry and, if a profile for mineral oil(s) was to be developed for international use in relation to the IBC Code, the data should ideally come from a representative cross-section of companies from around the world.

### **Flammability**

5.6 The Group recalled that at EHS 51, it had considered the use of the GESAMP Hazard Profile for chemical spill response. First responders confirmed that the addition of flammability and other properties in the GESAMP Hazard Profile, such as chemical reactivity, would be of significant value when responding to incidents involving hazardous materials. The group noted that it considered product flashpoint as part of its assessments, notably in the assignment of the E3 rating, but that such information was not currently captured in the GESAMP Hazard Profile. The group further noted that certain flammability properties were used by ESPH in the assignment of carriage requirements under chapter 21 of the IBC Code.

5.7 Taking the above into account, the group considered the possibility of adding a column to the GESAMP Hazard Profile to capture information on flammability. In discussing a possible way forward, the group noted that there were a number of properties associated with flammability, such as flashpoint, auto-ignition temperature and explosive/flammability range, and decided that more dialogue was needed to determine the most suitable to include in the hazard profile. The group therefore agreed to consider the matter in more detail intersessionally via correspondence and to revisit this topic at EHS 54.

### **Inhalation toxicity**

5.8 The group noted that the draft revision of chapter 21 of the IBC Code included a direct reference to the rating on acute inhalation toxicity in column C3 of the GESAMP Hazard Profile. However, it was noted that this rating may be based on exposure to mists or mixed vapour/aerosols and should therefore not be used to manage the risk to vapour exposure only. The group observed that the revised chapter 21 offered the option of using the SVC ratio calculation method, which uses the LC<sub>50</sub> for inhalation of vapours, together with saturated vapour concentration (SVC) to assign carriage requirements consistent with a lower inhalation risk.

5.9 The group recalled that the assignment of carriage requirements under the IBC Code was generally based on the GESAMP Hazard Profile. Given that the hazard profile did not currently contain information on vapour toxicity, the group considered options for including such information in the future, noting that this would be needed for the purposes of the new SVC ratio calculation.

5.10 As a first effort to address these considerations, the group recalled that at EHS 51, it had developed a new notation whereby a hash mark is added to those product entries with a lower inhalation risk by vapour exposure than is indicated in column C3. However, noting that this was not sufficient and could not be used in the SVC ratio calculation, the group agreed to consider other possibilities within the GESAMP Hazard Profile for providing the information needed for the calculation.

5.11 One option considered was dividing the C3 ratings into sub-categories (similar to the A1 column) to provide ratings for exposure to both vapours and mists, where possible, based on the data submitted. Noting that more discussion was needed, the group agreed to progress the matter in more detail intersessionally and to revisit this topic at EHS 54.

#### **"Inorg" rating under column A1 and A2**

5.12 Bioaccumulation of inorganic substances cannot be assessed using the conventional n-octanol/water partition coefficient, as is the case for organic substances. The bioaccumulation of inorganic substances must instead be assessed based on actual bioconcentration studies. Inorganic substances, additionally, do not biodegrade. As a consequence, such substances have been identified as "Inorg" in columns A1a and A2.

5.13 The "Inorg" notation, however, cannot be used to categorize products under MARPOL Annex II, since specific ratings in columns A1a (0-5) and A2 (R or NR) are required. As a consequence, in 2011, IMO through the BLG Working Group (see BLG.1/Circ.33) determined that, for the purposes of regulation under MARPOL Annex II, a rating of "Inorg" as assigned by GESAMP/EHS, should be translated to "R", indicating that inorganic products, such as metals, would be considered as readily biodegradable.

5.14 The recently revised *Reports and Studies No. 64*, 2nd edition (2014) indicates that a sub-categorization of inorganic substances into readily soluble/dispersible and not readily soluble/dispersible is possible and that these properties may accordingly be used to further qualify the "Inorg" notation. As such, it provides an indication as to how the biodegradability of an inorganic substance might be processed for classification purposes.

5.15 The Group, having noted the submission by the United Kingdom to ESPH 21 (ESPH 21/6/1) flagging this issue and, in particular the substances identified as "Inorg" in annex 1 of the document, recognized that the proposed approach introduced in Reports and Studies No. 64, 2nd edition, may give the impression that some inorganic substances with low chronic toxicity are as hazardous as non-biodegradable (NR rated) substances and, conversely, that inorganic substances with significant chronic toxicity may be understood to be less hazardous because of the theoretical assignment as being readily biodegradable (R), for purposes of regulation.

5.16 Given time constraints and noting that more discussion was needed to fully scope out the issue, the group agreed to place the matter in abeyance for the time being, pending finalization of other work items, and to revisit the topic at a future meeting. In the interim, the group reconfirmed that the rating of "Inorg" would continue to be used in columns A1a and A2, as per the current practice.

## **6 CONSOLIDATION OF EXISTING DATA FILES**

### **Alkanes**

6.1 The group recalled that it had noted a number of inconsistencies in the ratings across the family of alkanes and alkenes over a number of sessions and, taking this into account, had initiated a review of the family of alkanes to ensure consistency in the ratings.

6.2 The group recalled also that it had confirmed the objective of this review was twofold; firstly to review the individual substances within the family of alkanes (and eventually the alkenes) to ensure the accuracy of the ratings in the individual GESAMP Hazard Profiles and secondly, to review any significant discrepancies in ratings between similar analogs against the data submitted.

6.3 The group noted that, due to time constraints, it had been unable to progress this work and agreed that its work on alkanes would continue at EHS 54.

### **Paraffins**

6.4 Further to the work initiated at EHS 52 on the alkanes, the group agreed to review the entries of paraffins, as part of the family of alkanes, to ensure the same consistency in ratings.

6.5 Having considered the information submitted by the Chairman on the various paraffins, the group noted that the naming of the paraffin products set out in the Composite List and in the IBC Code were not consistent with the names used by the industry, e.g. CONCAWE. In addition, it was observed that the technical data available from industry for paraffins were not always consistent with the ratings assigned by the group, set out in the Composite List. Based on the information considered, the group concluded that there were four possible groupings for paraffins that could be correlated with the CONCAWE categories. Having concurred that further work was needed, the group agreed to revisit the topic at EHS 54. The group also welcomed the proposal by the Chairman to prepare a Chairman's paper for submission to ESPH 22 clarifying the issue, noting the work of ESPH on amendments to MARPOL Annex II related to the discharge of high-viscosity solidifying and persistent floating products.

## **7 COMMUNICATION AND PUBLICATION**

7.1 The group noted the information presented regarding recent updates to the GESAMP website, as reported by the Chairman under agenda item 2, and thanked the GESAMP Secretariat for its efforts.

## **8 ANY OTHER BUSINESS**

### **Membership issues**

8.1 The group recalled that at EHS 52, it had agreed it was essential to maintain the expertise of the group, noting that some changes to the membership would be expected due to anticipated retirements in the coming years.

8.2 The Secretariat reported on its efforts to secure an additional toxicologist and welcomed Dr Bette Meek to the meeting as a guest expert.

8.3 The group underscored the ongoing need to ensure appropriate geographical representation and gender balance within the group of experts and encouraged the Secretariat and Chairman to take this into account when recruiting new experts.

### **Report on funding**

8.4 The group noted the report on the outcome of the discussions of ESPH 21 with regard to the proposal made by EHS 52 for the introduction of a fee for re-assessments, as reported under agenda item 2, noting that it had invited GESAMP/EHS to continue monitoring the situation for the time being, with a view to revisiting the issue with ESPH in the future, if warranted.

8.5 The group also noted the financial information presented by the Secretariat, based on actual revenue and expenditures since the introduction of a fee in 2008, and other cost projections, based on possible future changes in the fees.

**Provisional agenda and date of the next session**

8.6 The group agreed to the draft provisional agenda for its next session, set out in annex 6 and agreed to the proposed scheduling of the meeting from 22 to 26 May 2017, noting that the next meeting would be held at IMO headquarters in London.

**9 CONSIDERATION AND ADOPTION OF THE REPORT**

9.1 The group adopted its report, noting that it would be circulated, together with the updated GESAMP Composite List, as PPR.1/Circ.3.

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**ANNEX 1**

**LIST OF PARTICIPANTS ATTENDING THE FIFTY-THIRD SESSION  
OF THE GESAMP/EHS WORKING GROUP**

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## ANNEX 2

### MATTERS ARISING FROM IMO

#### ESPH 21

##### ***Proposal for the introduction of a fee for the re-evaluation of products by the GESAMP/EHS Working Group***

1 ESPH 21 recalled that the introduction of a fee for the re-evaluation of products had initially been discussed at BLG 11 during its broader discussions related to the introduction of a fee for GESAMP/EHS assessments of new products (BLG 11/WP.3, paragraph 7.7.4) that was later agreed by MEPC.

2 It recalled further that, at BLG 11, the ESPH Working Group had expressed the view that an identical fee (to the initial assessment fee of US\$ 6500) should be paid when a second evaluation was deemed necessary or, as a second option, that for a second evaluation, the fee might be reduced by half each time data on the same chemical was submitted for consideration by the GESAMP/EHS Working Group.

3 ESPH 21 considered the proposal set out in document ESPH 21/2/1 (Secretariat), reflecting discussions held during EHS 52 regarding the proposal for the introduction of a fee for the re-evaluation of products by the GESAMP/EHS Working Group.

4 As an example, ESPH 21 noted that at the last GESAMP/EHS meeting, some ten substances required virtually a full re-evaluation of their profiles, based on the submissions of updated information.

5 Having discussed the information presented and recalling past discussions at BLG on the introduction of a fee for the review or re-assessment of products, ESPH noted the concerns of GESAMP/EHS. It agreed that if the workload continued to grow, it would be appropriate to revisit this issue and to re-evaluate the position accordingly. In the meantime, however, the group was of the view that it was premature to initiate any action and therefore agreed to request the GESAMP/EHS Working Group to continue monitoring this issue and report back to the ESPH Working Group, as appropriate.

#### ***Inorg products***

6 ESPH 21 considered document ESPH 21/6/1 (United Kingdom), which highlighted the need to take into account the decisions and interpretations related to the assignment of carriage requirements under the IBC Code and, where applicable, to incorporate these into the text of the revised chapter 21 to ensure consistency when assessing products and mixtures for inclusion in chapters 17 and 18 of the IBC Code and the MEPC.2/Circular.

7 In considering the information presented, ESPH noted that there were two separate issues that required its consideration. The first was with regard to the interpretation of biodegradability, where column A2 of the GESAMP Hazard was identified as "Inorg", which currently was taken to mean that the product was readily biodegradable, i.e. "R". Whilst it was noted that in practice this would not always be the case and that inorganic products could also be non-biodegradable, i.e. "NR", the group concurred that the interpretation, as set out in BLG.1/Circ.33, should remain unchanged.

8 The group, having reviewed the interpretations within the circular, noted that whilst many remained valid, others had been superseded by more recent amendments to the IBC Code, updated GESAMP/EHS information or new guidance contained in more recent circulars.

9 Having agreed on the value of retaining such interpretation information in a circular, the group agreed that the existing circular would need to be updated with all the new interpretations applied in the group's revision of chapters 17, 18 and 21 of the IBC Code and that this would be undertaken, subject to concurrence by PPR, once the amendments were finalized. The group further agreed that the interpretation used in its assessment of ethyl alcohol under agenda item 3 should also be recorded and retained for eventual inclusion in the revised circular.

10 The group also agreed that information related to the interpretations applied during assessments and a reference to BLG.1/Circ.33 should be included in its revision of MEPC.1/Circ.512 and possibly also in the revision of chapter 21. The group noted that it would continue to take these interpretations into account when evaluating products for inclusion in the MEPC.2/Circular and IBC Code and would keep records of any new interpretations applied, for inclusion in the revised circular.

## **MEPC 70**

11 The group noted the adoption of recent amendments to the appendix to MARPOL Annex II, which updated the table summarizing the GESAMP Hazard Evaluation Procedure based on the recently published 2nd edition of *Report and Studies No. 64*.

## **ESPH WG at PPR 3**

### **Sensitizers**

12 The group considered document PPR 3/3/3 (Norway) providing a comparison of the new sensitizer sub-categories (Ss, Sr) against two different sets of draft criteria for the revised chapter 21 and proposed a number of amendments to the text of chapter 21 related to sensitizers.

13 The group recalled its discussions at ESPH 21 related to whether a product that had been identified as a skin sensitizer (Ss) should be considered strictly as Ss for the purposes of assigning carriage requirements, or also as a respiratory sensitizer (Sr), using a precautionary approach.

14 Having debated the two options, ESPH concluded that it would strictly follow the assigned sub-categories as established by GESAMP/EHS when assigning carriage requirements linked to sensitization, i.e. Ss, Sr or SsSr. The group further agreed that this approach would be applied to chapter 17 products, as part of the IBC Code amendment process, and also to all new products assessed by the group from this point forward. The group further agreed to modified wording in sections 2.7.3 and 2.7.4 of the draft chapter 21 to reflect this. The group also confirmed that all references to animal testing should be removed and be replaced by the more generic word "testing".

***Component factor for mineral oils***

15 Further to discussions initiated at ESPH 21, the group revisited the discussion of the component factor assigned to mineral oils for the purposes of the mixture calculation in connection with its revisions of MEPC.1/Circ.512, noting that the current assigned factor of 100 may be too high. Taking this into account the group agreed to invite the Sub-Committee to request GESAMP/EHS to undertake an assessment of mineral oil for the purpose of the mixture.

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## ANNEX 3

### OUTCOME OF GESAMP 42

1 During the last 12 months the GESAMP Secretariat has been very busy. The website has been improved significantly. For the EHS Working Group (Working Group 1) a more comprehensive presentation including an up-to-date introduction has been put online (<http://www.gesamp.org/work-programme/workgroups/working-group-1>), together with reports from the 35th up to the 52nd sessions of GESAMP/EHS and a link to the 2nd edition of Reports and Studies 64 "Revised GESAMP Hazard Evaluation Procedure for Chemical Substances Carried by Ships". Also for other groups, in particular for the Ballast Water Working Group (Working Group 34), the introductions have been improved and important documents and guidelines are now offered online.

2 The 42nd session of GESAMP was hosted by the Intergovernmental Oceanographic Commission of UNESCO (IOC-UNESCO) in Paris, from 31 August to 3 September 2015. The report of this meeting has been published as Report and Studies 92 (<http://www.gesamp.org/publications/gesamp-reports-and-studies-91---100/report-of-the-92nd-session>).

3 At that meeting, the Chairman of the EHS Working Group reported on the publication of the 2nd Edition of *Reports and Studies* 64, the ongoing hazard assessment activities, as well as the membership and on funding issues. He highlighted the potential use of the GESAMP Hazard Profile during spillages and emergencies. GESAMP noted the challenges arising from the future direct reference to GESAMP ratings under the draft new Chapter 21 of the International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code), which may require more specific GESAMP hazard evaluations in the areas of acute inhalation toxicity and physical-chemical hazards (e.g. flammability). In a verbal statement, the Chairman explained the use of the GESAMP Hazard Profile for all regulations on environmental protection, on ship safety and on occupational health for defining minimum carriage requirements for bulk liquids.

4 Working Group 38 on the Atmospheric Input of Chemicals into the Ocean has prepared further scientific papers. The Paris meeting of GESAMP established Working Group 40 on "Marine geoengineering" which addresses aspects covered by the London Dumping Convention.

5 A very productive group is Working Group 40 "Sources, fate and effects of microplastics in the environment - a global assessment". It produced an extremely important booklet (*Reports and Studies* 90), which gives an overview on the facts and challenges. It includes a comprehensive list of relevant scientific papers on the topic. Part two of this global assessment, a report to inform the 2nd United Nations Environment Assembly, has been under review and will be published soon.

6 With respect to the challenges concerning the hazard and risk assessment of minerals, a workshop was held in Peru that resulted in *Reports and Studies* 93 "Proceedings of the GESAMP International Workshop on the Impacts of Mine Tailings in the Marine Environment" which will be published soon. This was a result of a scoping activity and could result in a specialized GESAMP Working Group on the impacts of such activities in the future.

7 The activities of GESAMP were also been presented and discussed at the 29th Assembly of IMO (A 29/19(a)/1) including the work of Working Group 1. The Assembly expressed its appreciation for the scientific advice provided by GESAMP in support of the Organization's objectives.

8 The 43rd session of GESAMP will be hosted by UNEP in Nairobi in November 2016.

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## ANNEX 4

### GESAMP HAZARD PROFILES FOR NEW SUBSTANCES SUBMITTED FOR EVALUATION TO GESAMP/EHS 53

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.

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
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		
Alkyl (C10-C15, C12 rich) phenol poly (4-12) ethoxylate (#)	2480	(5)	(4)	(4)	(NR)	(0)	NI	(0)	(0)	(2)	(2)	(1)		SD	2	
	4056												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		
Cinnamaldehyde	2485	1	(2)	(2)	R	2	0	1	1	(2)	2	1	Ss	SD	2	
Cinnamaldehyde	4061												CAS No	104-55-2		
Ethylene glycol (>75%)/sodium alkyl carboxylates/borax mixture (#)	2477	NI	(1)	(1)	R	1	NI	1	(1)	(2)	(1)	(1)	RT	D	3	
	4006												CAS No			
Ethylene glycol (>85%)/sodium alkyl carboxylates mixture (#)	2475	NI	(1)	(1)	R	1	NI	1	(1)	(1)	0	0	T	D	2	
	4005												CAS No			
Fish silage protein concentrate (containing 4% or less formic acid)	2487	NI	0	0	R	2	NI	(0)	(0)	(0)	(1)	(1)		Fp	2	
	4062												CAS No			
Lauroamidopropyl betaine solution (#)	2479	(4)	(2)	(2)	R	(4)	(1)	(0)	(0)	(3)	(1)	(3)		D	3	
	4055												CAS No	4292-10-8		
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			
Polyalkene sulphonic acid (C20-C28), sodium salt (#)	2481	(5)	(4)	(4)	(NR)	1	0	(1)	(0)	(2)	(2)	(2)		Fp	2	
	4057												CAS No			
Potassium iodide	2484	Inorg	(0)	(0)	Inorg	1	0	0	0	(0)	0	0	T	D	2	

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Potassium iodide	4060													CAS No	7681-11-0	
Sodium hydroxide (30% or less)/Sodium aluminate (25% or less) solution (#)	2486	Inorg	(0)	(0)	Inorg	5	0	0	(0)	(3)	3	(3)				D 3
	3914													CAS No		
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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## ANNEX 5

### UPDATED GESAMP 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).

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST  
GESAMP Hazard Profiles**

10 June 2016  
Page 1 of 66

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										<b>CAS No</b>	64-19-7				
Acetic anhydride	12	0	0	0	R	1	NI	1	0	2	3	3	A	D	3	
Acetic anhydride	65										<b>CAS No</b>	108-24-7				
Acetochlor (ISO)	2047	3	2	2	NR	4	NI	1	0	(1)	0	0		S	2	
Acetochlor	66										<b>CAS No</b>	34256-82-1				
Acetone	15	0	0	0	R	0	0	0	0	0	1	2		NT	DE	2
Acetone	67										<b>CAS No</b>	67-64-1				
Acetone cyanohydrin	14	0	0	0	R	4	NI	3	4	3	(3)	(3)		D	3	
Acetone cyanohydrin	68										<b>CAS No</b>	75-86-5				
Acetonitrile	16	0	0	0	R	1	NI	1	1	2	1	2		D	2	
Acetonitrile	69										<b>CAS No</b>	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										<b>CAS No</b>					
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										<b>CAS No</b>					
Acrylamide	23	0	0	0	R	2	0	2	2	(2)	1	2	CMNSs	D	3	
Acrylamide solution (50% or less)	70										<b>CAS No</b>	79-06-1				
Acrylic acid	24	0	0	0	R	4	NI	2	2	2	3C	3		D	3	
Acrylic acid	71										<b>CAS No</b>	79-10-7				
Acrylic acid / dimethyldiallyl ammonium 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 / dimethyldiallyl ammonium chloride copolymer, partial sodium salt (MWt 1500-4000, aqueous solution)	3682										<b>CAS No</b>					
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										<b>CAS No</b>					
Acrylonitrile	25	0	2	2	NR	3	0	2	3	3	2	2	CMSs	NT	DE	3
Acrylonitrile	72										<b>CAS No</b>	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										<b>CAS No</b>					

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 2 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Adiponitrile	26	0	0	0	R	1	NI	3	(3)	3	3	(3)		FD	3	
Adiponitrile	74									<b>CAS No</b>	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									<b>CAS No</b>	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									<b>CAS No</b>						
Alcoholic silicasol	2198	0	0	0	R	0	0	0	0	0	1	2		DE	2	
Tetraethyl silicate monomer/oligomer (20% in ethanol)	2475									<b>CAS No</b>						
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									<b>CAS No</b>						
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									<b>CAS No</b>						
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									<b>CAS No</b>						
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									<b>CAS No</b>	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									<b>CAS No</b>						
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									<b>CAS No</b>						
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									<b>CAS No</b>						
Alcohol(C12-C14)poly(2)ethoxylate sulphate, sodium salt (*)	2419	2	NI	2	R	3	NI	NI	NI	NI	NI	NI		NI	NI	
	3695									<b>CAS No</b>						
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									<b>CAS No</b>						
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									<b>CAS No</b>						
Alcohols, C10-C16 ethoxylated propoxylated (*)	2450	0	NI	0	R	3	NI	NI	NI	NI	NI	NI		NI	NI	
	3868									<b>CAS No</b>						

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

**10 June 2016**  
**Page 3 of 66**

<b>EHS Name TRN Name</b>	<b>EHS TRN</b>	<b>A1a</b>	<b>A1b</b>	<b>A1</b>	<b>A2</b>	<b>B1</b>	<b>B2</b>	<b>C1</b>	<b>C2</b>	<b>C3</b>	<b>D1</b>	<b>D2</b>	<b>D3</b>	<b>E1</b>	<b>E2</b>	<b>E3</b>
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									<b>CAS No</b>						
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									<b>CAS No</b>						
Alcohols, linear (C10-C14)	2365	(5)	(2)	(2)	(R)	(4)	(1)	0	0	(2)	(2)	(2)		Fp	2	
Decyl/Dodecyl/Tetradecyl alcohol mixture	3128									<b>CAS No</b>						
Alkanes (C6-C9)	2202	(5)	NI	(5)	(R)	(4)	NI	(0)	(0)	(1)	(2)	(2)	N	FE	2	
Alkanes (C6-C9)	88									<b>CAS No</b>						
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									<b>CAS No</b>						
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									<b>CAS No</b>						
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									<b>CAS No</b>						
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									<b>CAS No</b>						
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									<b>CAS No</b>	90622-53-0					
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)	3562									<b>CAS No</b>	90622-53-0					
n-Alkanes (C9-C11)	2449	(5)	NI	(5)	R	0	(0)	0	0	(2)	1	0	A	F	3	
n-Alkanes (C9-C11)	3867									<b>CAS No</b>						
n-Alkanes (C10-C20)	296	(5)	NI	(5)	(R)	(0)	(0)	(0)	(0)	(1)	(1)	(0)	A	F	3	
n-Alkanes (C10+)	471									<b>CAS No</b>						
Alkane (C14-C17) sulphonic acid, sodium salt	334	2	2	2	R	3	1	0	0	(2)	2	2		D	2	
Sodium alkyl (C14-C17) sulphonates (60-65% solution)	1153									<b>CAS No</b>						
Alkaryl polyether (C9-C20) (LOA)	1974	4	NI	4	NR	3	NI	0	0	(3)	2	3		S	2	
Alkaryl polyethers (C9-C20)	90									<b>CAS No</b>						
Alkenoic acid ester, borated	2376	5	(3)	(3)	R	2	NI	0	0	(2)	2	0		Fp	2	
Alkenoic acid ester, borated	3153									<b>CAS No</b>						

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 4 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Alkenylamide, long chain, more than C10	1858	3	NI	3	(NR)	4	NI	0	(0)	(1)	0	1		Fp	2	
Alkenyl (C11+) amide	838									<b>CAS No</b>						
Alkenyl succinic anhydride	298	0	0	0	NR	1	NI	0	0	(2)	2	(2)	SsSr	FD	2	
Alkenyl (C16-C20) succinic anhydride	2336									<b>CAS No</b>						
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									<b>CAS No</b>						
Alkyl/cyclo(C4-C5)alcohols	2447	(1)	(1)	(1)	(R)	(2)	(0)	(1)	(1)	(2)	(2)	(3)		FED	3	
	3825									<b>CAS No</b>						
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									<b>CAS No</b>						
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									<b>CAS No</b>						
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									<b>CAS No</b>						
Alkylated phenols (C4-C9)	2273	0	2	0	NR	1	0	1	0	(2)	1	1		Fp	2	
Alkylated (C4-C9) hindered phenols	2575									<b>CAS No</b>						
Alkyl benzene distillation bottoms	300	0	2	2	NR	0	(3)	0	0	0	1	1		Fp	2	
Alkyl benzene distillation bottoms	3106									<b>CAS No</b>						
Alkyl (C12-C15) benzene/indane/indene mixture	1872	0	4	4	NR	0	NI	0	0	0	0	0		FE	2	
Alkylbenzene, alkylindane, alkylindene mixture (each C12-C17)	103									<b>CAS No</b>						
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									<b>CAS No</b>						
Alkyl (C3-C4) benzenes	2206	(3)	NI	(3)	R	4	NI	0	0	(2)	(2)	(1)		FE	2	
Alkyl (C3-C4) benzenes	91									<b>CAS No</b>						
Alkyl (C5-C8) benzenes	2207	5	4	4	(NR)	4	NI	0	0	(2)	(2)	(1)		F	2	
Alkyl (C5-C8) benzenes	92									<b>CAS No</b>						
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									<b>CAS No</b>						
Alkylbenzenes mixture (containing less than 1% naphthalene)	2423	3	3	3	NR	4	NI	0	0	(2)	2	1	AC	F	3	
Alkylbenzenes mixture (containing less than 1% naphthalene)	3600									<b>CAS No</b>						

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 5 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Alkylbenzenes mixtures (containing naphthalene)	2424	(3)	(3)	(3)	(NR)	(4)	NI	0	0	(1)	1	1	AC	F	3	
Alkylbenzenes mixture (containing naphthalene)	3698									<b>CAS No</b>						
Alkylbenzenes mixtures (containing naphthalene)	2424	(3)	(3)	(3)	(NR)	(4)	NI	0	0	(1)	1	1	AC	F	3	
Alkylbenzenes mixtures (containing naphthalene)	3966									<b>CAS No</b>						
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									<b>CAS No</b>	42615-29-2					
Alkyl dithiocarbamate (C19-C35)	2236	0	NI	0	NI	1	NI	0	0	(0)	0	0		S	0	
Alkyl dithiocarbamate (C19-C35)	2538									<b>CAS No</b>						
Alkyl dithio thiadiazole (C6-C24) (LOA)	1981	5	NI	5	NR	1	NI	0	0	(0)	0	0		S	2	
Alkyldithiothiadiazole (C6-C24)	104									<b>CAS No</b>						
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									<b>CAS No</b>						
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									<b>CAS No</b>						
Alkylnaphthalenes, crude (containing naphthalene)	2426	(4)	(4)	(4)	(R)	(4)	NI	0	0	(1)	1	1	AC	F	3	
Alkylnaphthalenes (containing naphthalenes), crude	3699									<b>CAS No</b>						
Alkyl (C7-C9) nitrates	8	4	NI	4	NR	3	NI	0	0	(3)	2	(3)		F	3	
Alkyl (C7-C9) nitrates	93									<b>CAS No</b>						
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									<b>CAS No</b>						
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									<b>CAS No</b>						
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									<b>CAS No</b>						
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									<b>CAS No</b>	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									<b>CAS No</b>	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									<b>CAS No</b>	68515-73-1					

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 6 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
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									<b>CAS No</b>						
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									<b>CAS No</b>	110615-47-9					
Alkyl (C10-C15, C12 rich) phenol poly (4-12) ethoxylate (#)	2480	(5)	(4)	(4)	(NR)	(0)	NI	(0)	(0)	(2)	(2)	(1)		SD	2	
	4056									<b>CAS No</b>						
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									<b>CAS No</b>	91082-17-6					
Alkytoluenes	2374	0	2	2	NR	0	NI	0	(0)	(1)	0	1		Fp	2	
Alkyl (C18+) toluenes	3148									<b>CAS No</b>						
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									<b>CAS No</b>						
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									<b>CAS No</b>						
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									<b>CAS No</b>						
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									<b>CAS No</b>						
Allyl alcohol	28	0	0	0	R	4	NI	2	3	3	2	3	A	D	3	
Allyl alcohol	105									<b>CAS No</b>	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									<b>CAS No</b>						
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									<b>CAS No</b>						
Aluminium sulphate solution	2205	Inorg	Inorg	2	Inorg	3	1	1	(0)	(3)	(2)	(3)		D	3	
Aluminium sulphate solution	111									<b>CAS No</b>						
2-(2-Aminoethoxy) ethanol	75	0	0	0	NR	1	0	0	1	(3)	3	3		D	3	
2-(2-Aminoethoxy) ethanol	37									<b>CAS No</b>	929-06-6					
Aminoethylethanolamine	68	0	0	0	NR	1	0	0	0	(3)	3B	2	SsSr	D	3	
Aminoethyl ethanolamine	112									<b>CAS No</b>	111-41-1					

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 7 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Aminoethylethanolamine/Aminoethylidiethanolamine solution	74	Inorg	0	0	NR	1	0	(0)	(0)	(3)	(3B)	(2)	SsSr	D	3	
Aminoethylidiethanolamine/Aminoethylethanolamine solution	113												<b>CAS No</b>			
N-Aminoethylpiperazine	88	0	0	0	NR	1	NI	0	2	(3)	3	3	Ss	D	3	
N-Aminoethylpiperazine	472												<b>CAS No</b>	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												<b>CAS No</b>	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												<b>CAS No</b>	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												<b>CAS No</b>	7664-41-7		
Ammonium bisulphite solution, greater than 15%	1730	NI	NI	NI	NI	1	NI	NI	NI	NI	2	2		D	2	
Ammonium bisulphite solution (70% or less)	115												<b>CAS No</b>	10192-30-0		
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												<b>CAS No</b>	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												<b>CAS No</b>	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												<b>CAS No</b>			
Ammonium polyphosphate solution	1764	Inorg	0	0	Inorg	1	NI	0	0	0	1	0		D	1	
Ammonium polyphosphate solution	120												<b>CAS No</b>	10-34-0		
Ammonium sulphate	99	0	0	0	Inorg	1	(0)	0	(0)	(0)	0	0		D	0	
Ammonium sulphate solution	121												<b>CAS No</b>	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												<b>CAS No</b>	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												<b>CAS No</b>			
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												<b>CAS No</b>	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												<b>CAS No</b>	628-63-7		

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST  
GESAMP Hazard Profiles**

10 June 2016  
Page 8 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
tert-Amyl ethyl ether	2428	3	NI	3	NR	1	NI	0	(0)	0	2	2		E	2	
tert-Amyl ethyl ether	3623												<b>CAS No</b>			
tert-Amyl methyl ether	2141	1	NI	1	NI	4	NI	1	0	2	0	1		ED	2	
tert-Amyl methyl ether	2210												<b>CAS No</b>			
Amyl propionate	1484	2	NI	2	R	2	NI	0	0	(2)	2	1		F	2	
n-Pentyl propionate	484												<b>CAS No</b>	624-54-4		
Aniline	261	0	0	0	R	3	2	2	2	3	1	3	CTSs	NT	FD	3
Aniline	127												<b>CAS No</b>	62-53-3		
Apple juice	275	0	NI	0	R	0	0	0	0	0	0	0		D	0	
Apple juice	130												<b>CAS No</b>			
Aryl polyolefin (C11-C50) (LOA)	1979	NI	NI	0	NR	0	NI	0	0	0	0	0		Fp	2	
Aryl polyolefins (C11-C50)	131												<b>CAS No</b>			
L-Aspartic acid, homopolymer, sodium salt (aqueous solution)	2421	0	0	0	NR	0	NI	0	(0)	0	0	0		D	0	
L-Aspartic acid, homopolymer, sodium salt (aqueous solution)	3697												<b>CAS No</b>			
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												<b>CAS No</b>			
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												<b>CAS No</b>			
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												<b>CAS No</b>			
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												<b>CAS No</b>	71-43-2		
Benzene propanoic 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	
3,5-bis(1,1-dimethylethyl)-4-hydroxybenzenepropanoic acid, (C7-C9)-branched alkyl esters	3405												<b>CAS No</b>			
Benzene sulphonyl chloride	320	1	1	1	R	3	NI	1	(2)	(3)	3	3	Ss	SD	3	
Benzene sulphonyl chloride	134												<b>CAS No</b>	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												<b>CAS No</b>			
Benzyl acetate	348	1	NI	1	R	3	1	1	0	2	1	1		SD	2	
Benzyl acetate	138												<b>CAS No</b>	140-11-4		

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 9 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Benzyl alcohol	349	1	NI	1	R	2	NI	1	1	2	2	2		SD	2	
Benzyl alcohol	139												<b>CAS No</b>	100-51-6		
Benzyl chloride	352	NI	1	1	R	3	1	1	(2)	3	3	3	CSsA	S	3	
Benzyl chloride	140												<b>CAS No</b>	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												<b>CAS No</b>			
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												<b>CAS No</b>			
Bismuth oxide	2483	Inorg	(0)	(0)	Inorg	(0)	(0)	0	(0)	0	0	0		S	0	
Bismuth oxide	4059												<b>CAS No</b>	1304-76-3		
Bis[3-(triethoxysilyl)propyl]amine	2444	1	NI	1	R	1	NI	0	0	(2)	2	2		D	2	
3-(Triethoxysilyl)propylamine	3823												<b>CAS No</b>	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												<b>CAS No</b>	1303-96-4		
Boric acid	360	Inorg	0	0	Inorg	1	0	0	(0)	(1)	1	1	R	S	3	
Boric acid	2254												<b>CAS No</b>	10043-35-3		
Bromochloromethane	2084	1	1	1	NR	1	NI	0	0	0	1	0		SD	1	
Bromochloromethane	145												<b>CAS No</b>	74-97-5		
1-Bromopropane	2229	2	NI	2	NI	NI	NI	0	(0)	0	(2)	(2)		SD	2	
1-Bromopropane	2696												<b>CAS No</b>			
Butanol	381	0	(0)	0	R	0	NI	0	0	0	2	3		NT	D	3
Butyl alcohol (all isomers)	2216												<b>CAS No</b>	71-36-3		
Butanol	381	0	(0)	0	R	0	NI	0	0	0	2	3		NT	D	3
n-Butyl alcohol	474												<b>CAS No</b>	71-36-3		
sec-Butanol	383	0	(0)	0	R	0	NI	0	0	0	0	2		NT	D	2
sec-Butyl alcohol	638												<b>CAS No</b>	78-92-2		
tert-Butanol	384	0	0	0	NR	1	NI	0	0	0	1	3		NT	D	3
tert-Butyl alcohol	686												<b>CAS No</b>	75-65-0		
2-Butanone	385	0	NI	0	R	1	0	0	0	0	1	2		DE	2	
Methyl ethyl ketone	446												<b>CAS No</b>	78-93-3		

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 10 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Butene oligomer	386	0	NI	0	NR	(4)	0	0	0	0	0	0	1		FE	2
Butene oligomer	146													<b>CAS No</b>		
Butyl acetate	387	1	NI	1	R	2	NI	0	0	0	0	0	1		FED	2
Butyl acetate (all isomers)	147													<b>CAS No</b>	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													<b>CAS No</b>	141-32-2	
Butylamine	392	0	NI	0	R	2	NI	2	2	3	3C	3			DE	3
Butylamine (all isomers)	154													<b>CAS No</b>	109-73-9	
Butyl benzene	1774	4	NI	4	NI	4	1	0	0	(2)	2	1			Fp	2
Butylbenzene (all isomers)	155													<b>CAS No</b>	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													<b>CAS No</b>	85-68-7	
Butyl butyrate	399	2	NI	2	(R)	2	NI	0	0	(1)	1	NI			FE	2
Butyl butyrate (all isomers)	150													<b>CAS No</b>	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													<b>CAS No</b>		
Butylene glycol(s)	402	0	NI	0	R	1	NI	1	0	0	0	0			D	1
Butylene glycol	156													<b>CAS No</b>	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													<b>CAS No</b>	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													<b>CAS No</b>	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													<b>CAS No</b>	106-88-7	
Butyl methacrylate	409	2	NI	2	NR	1	NI	0	0	0	2	2	Ss		FE	2
Butyl methacrylate	151													<b>CAS No</b>	97-88-1	
Butyl octyl phthalate	410	5	NI	5	(R)	0	2	0	(0)	(1)	(1)	(1)			Fp	2
Butyl octyl phthalate	2749													<b>CAS No</b>	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													<b>CAS No</b>		

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
 Page 11 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
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		
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		
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, including:calcium bromide solution, calcium chloride solution and sodium chloride solution	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 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			

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 12 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
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												<b>CAS No</b>			
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												<b>CAS No</b>			
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												<b>CAS No</b>			
Calcium long-chain alkyl phenolic amine (C8-C40)	1728	NI	NI	NI	NR	0	NI	0	0	(1)	1	(1)			Fp	2
	171												<b>CAS No</b>			
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												<b>CAS No</b>			
Calcium nitrate	1803	Inorg	0	0	Inorg	0	NI	0	(0)	(1)	1	1			D	1
Calcium nitrate solutions (50% or less)	172												<b>CAS No</b>	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												<b>CAS No</b>			
Camelina oil	2440	(0)	NI	(0)	(R)	(0)	(0)	(0)	(0)	(1)	(0)	(1)			Fp	2
Camelina oil	3767												<b>CAS No</b>	68956-68-3		
Camphor oil, white	1897	NI	NI	NI	NI	NI	NI	2	NI	(2)	1	NI		(T)	FE	2
Camphor oil	174												<b>CAS No</b>	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												<b>CAS No</b>	105-60-2		
Carbolic oil	437	(3)	3	(3)	(NR)	(3)	(1)	2	2	3	3	3	ATNCM		FED	3
Carbolic oil	176												<b>CAS No</b>			
Carbon disulphide	439	2	1	1	NR	3	NI	2	(3)	4	3A	3	RN		SD	3
Carbon disulphide	177												<b>CAS No</b>	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												<b>CAS No</b>			
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												<b>CAS No</b>			
Cesium Formate, drilling brines	2384	0	3	3	Inorg	2	NI	1	0	(2)	2	2			D	2
Cesium formate solution (*)	3421												<b>CAS No</b>	3495-36-1		

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 13 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Cetyl/Eicosyl methacrylate (mixture)	445	0	NI	0	(NR)	(0)	NI	0	(0)	(1)	(1)	(1)			Fp	2
Cetyl/Eicosyl methacrylate mixture	180												<b>CAS No</b>			
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												<b>CAS No</b>			
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												<b>CAS No</b>			
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												<b>CAS No</b>			
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												<b>CAS No</b>			
Chloroacetic acid	450	0	NI	0	R	2	0	2	3	(4)	3C	3	A		D	3
Chloroacetic acid (80% or less)	184												<b>CAS No</b>	79-11-8		
Chlorobenzene	456	2	2	2	NR	3	0	1	0	2	2	0			S	2
Chlorobenzene	185												<b>CAS No</b>	108-90-7		
Chlorohydrins	463	0	NI	0	R	0	NI	(2)	(2)	(3)	(3A)	3	C		D	3
Chlorohydrins (crude)	187												<b>CAS No</b>	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												<b>CAS No</b>			
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												<b>CAS No</b>			
Chloronitrobenzenes	467	2	2	2	NR	3	NI	2	2	2	1	1			S	2
o-Chloronitrobenzene	533												<b>CAS No</b>	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-pantan-3-one	21												<b>CAS No</b>			
2-Chloropropionic acid	474	0	NI	0	R	1	NI	1	(3)	2	3A	3			D	3
2- or 3-Chloropropionic acid	36												<b>CAS No</b>	598-78-7		
3-Chloropropylene	478	1	1	1	R	3	NI	1	0	2	1	3	T		E	3
Allyl chloride	106												<b>CAS No</b>	107-05-1		
Chlorosulphonic acid	479	Inorg	0	0	Inorg	2	NI	(2)	(3)	4	3C	3			D	3
Chlorosulphonic acid	188												<b>CAS No</b>	7790-94-5		

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 14 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
m-Chlorotoluene	481	3	NI	3	NR	2	NI	2	0	(2)	1	1		S	2	
m-Chlorotoluene	426									<b>CAS No</b>	108-41-8					
o-Chlorotoluene	480	3	3	3	NR	3	1	0	0	0	1	1		S	1	
o-Chlorotoluene	534									<b>CAS No</b>	95-49-8					
o-Chlorotoluene	480	3	3	3	NR	3	1	0	0	0	1	1		S	1	
Chlorotoluenes (mixed isomers)	189									<b>CAS No</b>	95-49-8					
p-Chlorotoluene	482	3	3	3	NR	3	0	0	0	0	1	1		S	2	
p-Chlorotoluene	551									<b>CAS No</b>	106-43-4					
Choline chloride, solutions	485	0	NI	0	R	1	NI	0	(0)	(0)	0	0		D	0	
Choline chloride solutions	190									<b>CAS No</b>	67-48-1					
Cinnamaldehyde	2485	1	(2)	(2)	R	2	0	1	1	(2)	2	1	Ss	SD	2	
Cinnamaldehyde	4061									<b>CAS No</b>	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									<b>CAS No</b>	77-92-9					
Citric juices	494	0	0	0	Inorg	0	0	0	0	0	0	0		D	0	
Water	740									<b>CAS No</b>						
Clay	495	Inorg	0	0	Inorg	0	0	0	0	0	0	0		S	0	
Clay slurry	191									<b>CAS No</b>						
Coal slurry	498	Inorg	0	0	Inorg	0	0	0	0	0	0	0		S	0	
Coal slurry	192									<b>CAS No</b>						
Coal tar	499	(4)	4	4	NR	3	1	0	0	0	2	2	CMR	(T)	S	3
Coal tar	193									<b>CAS No</b>	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									<b>CAS No</b>	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									<b>CAS No</b>	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									<b>CAS No</b>						
Cocoa butter	2342	0	NI	0	R	0	NI	(0)	(0)	(1)	(0)	(1)		Fp	2	
Cocoa butter	3096									<b>CAS No</b>						

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 15 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Coconut acid oil	2370	0	0	0	R	3	NI	(0)	(0)	(1)	(1)	(1)		Fp	2	
Coconut acid oil	3139												<b>CAS No</b>			
Coconut fatty acid distillate	2366	0	NI	0	R	(3)	NI	0	(0)	(1)	(1)	(1)		Fp	2	
Coconut fatty acid distillate	3130												<b>CAS No</b>			
Coconut oil	503	0	NI	0	R	1	NI	0	(0)	(1)	0	(1)		Fp	2	
Coconut oil	2772												<b>CAS No</b>	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												<b>CAS No</b>	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												<b>CAS No</b>	61788-59-8		
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												<b>CAS No</b>			
Corn oil	521	0	NI	0	R	(2)	NI	0	(0)	(1)	1	1		Fp	2	
Corn Oil	2781												<b>CAS No</b>	8001-30-7		
Cotton seed oil	523	0	NI	0	R	(2)	NI	(0)	(0)	(1)	0	1		Fp	2	
Cotton seed oil	2783												<b>CAS No</b>	8001-29-4		
Creosote (coal tar)	524	(4)	(4)	(4)	NR	4	(2)	1	0	2	2	1	CM	(T)	S	3
Creosote (coal tar)	199												<b>CAS No</b>	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												<b>CAS No</b>	8021-39-4		
Cresol/Phenol/Xylenol mixture	2471	(2)	(2)	(2)	R	(3)	(1)	1	2	3	3B	3		SD	3	
	3673												<b>CAS No</b>			
Cresols (mixed isomers)	527	2	2	2	R	3	(1)	2	2	4	3A	3		T	SD	3
Cresols (all isomers)	201												<b>CAS No</b>	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												<b>CAS No</b>			
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												<b>CAS No</b>			
Crotonaldehyde	528	0	NI	0	NR	4	1	2	4	4	2	3		D	3	
Crotonaldehyde	204												<b>CAS No</b>	4170-30-3		

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 16 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Crude Piperazine	2331	0	NI	0	R	2	NI	(1)	(2)	(3)	3	3	SsSr	D	3	
Crude Piperazine	2810												<b>CAS No</b>			
Crude Tall Oil	2357	4	NI	4	R	2	0	0	0	(0)	0	0	Ss	Fp	3	
Tall oil, crude	3118												<b>CAS No</b>			
1,5,9-Cyclododecatriene	534	5	5	5	NR	4	NI	0	0	1	2	1	A	F	3	
1,5,9-Cyclododecatriene	17												<b>CAS No</b>	4904-61-4		
Cycloheptane	535	4	NI	4	(NR)	4	NI	(0)	0	(1)	(0)	(1)		FE	2	
Cycloheptane	205												<b>CAS No</b>	291-64-5		
Cyclohexane	536	3	3	3	NR	3	NI	0	0	1	0	1		E	2	
Cyclohexane	206												<b>CAS No</b>	110-82-7		
Cyclohexane-1,2-dicarboxylic acid, diisonyl ester	2472	0	3	3	R	0	0	0	0	(1)	1	0		Fp	2	
Cyclohexane-1,2-dicarboxylic acid, diisonyl ester	3915												<b>CAS No</b>	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												<b>CAS No</b>			
Cyclohexanol	537	1	NI	1	R	2	NI	0	0	0	2	2		Fp	2	
Cyclohexanol	207												<b>CAS No</b>	108-93-0		
Cyclohexanone	539	0	1	1	R	1	0	1	1	1	2	2		FE	2	
Cyclohexanone	208												<b>CAS No</b>	108-94-1		
Cyclohexanone/Cyclohexanol mixture	1436	1	1	1	R	2	NI	1	1	1	2	2		FED	2	
Cyclohexanone, Cyclohexanol mixture	209												<b>CAS No</b>			
Cyclohexyl acetate	541	2	NI	2	(R)	(2)	NI	0	0	(2)	2	1		FED	2	
Cyclohexyl acetate	210												<b>CAS No</b>	622-45-7		
Cyclohexylamine	542	1	NI	1	R	2	NI	2	2	3	3	3		D	3	
Cyclohexylamine	211												<b>CAS No</b>	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												<b>CAS No</b>	77-73-6		
Cyclopentane	546	3	NI	3	NR	3	NI	(0)	(0)	0	1	(1)		E	2	
Cyclopentane	212												<b>CAS No</b>	287-92-3		
Cyclopentene	547	2	NI	2	(R)	3	NI	1	1	0	2	(0)	A	E	2	
Cyclopentene	213												<b>CAS No</b>	142-29-0		

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 17 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Decahydronaphthalene	551	4	4	4	NR	3	NI	0	0	2	2	1		F	1	
Decahydronaphthalene	214												<b>CAS No</b>	91-17-8		
Decane	554	5	NI	5	R	0	0	0	0	0	1	0		F	1	
Decane	2620												<b>CAS No</b>	124-18-5		
Decanoic acid	555	4	NI	4	R	4	1	0	0	(2)	2	2		Fp	2	
Decanoic acid	215												<b>CAS No</b>	334-48-5		
1-Decene	558	5	NI	5	R	4	2	0	0	0	2	0	A	F	3	
Decene	216												<b>CAS No</b>	872-05-9		
Decyl acetate	1767	4	NI	4	NI	NI	NI	0	0	(1)	(1)	(1)		F	1	
Decyl acetate	217												<b>CAS No</b>	112-17-4		
Decyl acrylate	559	5	NI	5	(R)	5	NI	0	0	(2)	2	1		Fp	2	
Decyl acrylate	218												<b>CAS No</b>	2156-96-9		
Decyloxytetrahydrothiophene dioxide	1859	3	NI	3	NR	4	NI	0	0	(1)	1	0		Fp	2	
Decyloxytetrahydrothiophene dioxide	220												<b>CAS No</b>			
Dextrose solution	562	0	0	0	R	0	NI	0	0	0	0	(0)		D	0	
Glucose solution	361												<b>CAS No</b>	50-99-7		
Dextrose solution	562	0	0	0	R	0	NI	0	0	0	0	(0)		D	0	
Dextrose solution	221												<b>CAS No</b>	50-99-7		
Diacetone alcohol	563	0	NI	0	R	1	0	0	0	(2)	2	2		D	2	
Diacetone alcohol	226												<b>CAS No</b>	123-42-2		
Dialkyldiphenylamines (LOA)	1852	5	NI	5	NR	1	0	0	0	(0)	0	0		FD	0	
Dialkyl (C8-C9) diphenylamines	2255												<b>CAS No</b>			
Dialkyl (C9 - C10) phthalates	2359	(0)	(0)	(0)	(R)	(0)	(0)	(0)	(0)	(0)	(1)	(1)		Fp	2	
Dialkyl (C9 - C10) phthalates	3121												<b>CAS No</b>			
Dialkyl phthalates C9-C13	566	(0)	(4)	(4)	(NR)	(0)	(2)	(0)	(0)	(1)	(1)	(1)	R	Fp	3	
Dialkyl (C7-C13) phthalates	227												<b>CAS No</b>			
2,6-Diaminohexanoic acid phosphonate mixed salts solution (#)	2469	1	NI	1	NR	1	(0)	(1)	(1)	(3)	(3)	(3)		D	3	
	3989												<b>CAS No</b>			
Diammonium hydrogen phosphate	98	0	0	0	Inorg	1	NI	0	0	(0)	(1)	(1)		D	1	
Ammonium hydrogen phosphate solution	117												<b>CAS No</b>	7783-28-0		

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 18 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Dibromomethane	574	1	NI	1	NR	(2)	NI	1	0	0	(2)	(2)		SD	2	
Dibromomethane	228										<b>CAS No</b>	74-95-3				
Di-n-butylamine	577	2	NI	2	R	3	NI	2	2	3	3	3		FD	3	
Dibutylamine	231										<b>CAS No</b>	111-92-2				
Di-butyl ether	578	3	3	3	NR	2	NI	0	0	0	1	1		FE	2	
n-Butyl ether	475										<b>CAS No</b>	142-96-1				
Dibutyl hydrogen phosphonate	1857	1	NI	1	NI	2	NI	0	0	(3)	3	3		F	3	
Dibutyl hydrogen phosphonate	229										<b>CAS No</b>	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										<b>CAS No</b>	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										<b>CAS No</b>	128-39-2				
Di-n-butyl phthalate	582	4	4	4	R	4	1	0	0	1	0	1	R	S	3	
Dibutyl phthalate	230										<b>CAS No</b>	84-74-2				
Dibutyl terephthalate	2430	5	(3)	(3)	R	4	2	0	0	(0)	0	0		S	0	
Dibutyl terephthalate	3596										<b>CAS No</b>					
Dichlorobenzene (all isomers)	333	3	4	4	NR	3	1	1	0	1	(2)	2	CMR	T	S	3
Dichlorobenzene (all isomers)	232										<b>CAS No</b>					
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										<b>CAS No</b>	760-23-6				
1,1-Dichloroethane	590	1	NI	1	NR	1	NI	1	(1)	0	2	2		SD	2	
1,1-Dichloroethane	4										<b>CAS No</b>	75-34-3				
1,2-Dichloroethane	591	1	1	1	NR	2	0	1	0	2	1	2	C	SD	3	
Ethylene dichloride	330										<b>CAS No</b>	107-06-2				
1,6-Dichlorohexane	593	3	NI	3	NR	3	NI	0	(0)	(0)	0	0		S	0	
1,6-Dichlorohexane	19										<b>CAS No</b>	2163-00-0				
Dichloromethane	594	1	2	2	NR	1	0	1	0	0	2	2	C	SD	3	
Dichloromethane	234										<b>CAS No</b>	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										<b>CAS No</b>	120-83-2				

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 19 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
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									<b>CAS No</b>						
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									<b>CAS No</b>						
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									<b>CAS No</b>						
1,1-Dichloropropane	605	2	1	1	NR	2	1	0	0	1	1	1			SD	1
1,1-Dichloropropane	5									<b>CAS No</b>	78-99-9					
1,2-Dichloropropane	606	2	1	1	NR	2	0	1	0	2	2	2			SD	2
1,2-Dichloropropane	9									<b>CAS No</b>	78-87-5					
1,3-Dichloropropane	607	2	1	1	NR	2	1	0	NI	NI	NI	NI			SD	NI
1,3-Dichloropropane	12								<b>CAS No</b>	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								<b>CAS No</b>	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								<b>CAS No</b>	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								<b>CAS No</b>	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								<b>CAS No</b>	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								<b>CAS No</b>							
Diethanolamine	620	0	NI	0	R	1	0	1	0	0	2	3	T		D	3
Diethanolamine	236								<b>CAS No</b>	111-42-2						
Diethylamine	621	0	NI	0	R	2	NI	1	2	3	3C	3			DE	3
Diethylamine	240								<b>CAS No</b>	109-89-7						
2,6-Diethylaniline	1437	3	3	3	NR	2	NI	1	1	(2)	1	2			FD	2
2,6-Diethylaniline	35								<b>CAS No</b>	579-66-8						
Diethyl benzene (mixed isomers)	624	4	4	4	NR	3	NI	0	(0)	(2)	2	1			F	2
Diethylbenzene	242								<b>CAS No</b>	25340-17-4						

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 20 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Di-(2-ethylbutyl) phthalate	625	5	NI	5	R	0	2	0	0	(1)	1	(1)	R	Fp	3	
Di-(2-ethylbutyl) phthalate	2750									<b>CAS No</b>	84-75-3					
Diethylene glycol	628	0	NI	0	R	0	0	1	0	2	1	1		D	2	
Diethylene glycol	243									<b>CAS No</b>	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									<b>CAS No</b>	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									<b>CAS No</b>	112-36-7					
Diethylene glycol initiated polyoxypropylene diamine	2353	0	NI	0	NR	2	NI	0	0	(3)	3B	(3)		D	3	
Polyetheramine	2946									<b>CAS No</b>						
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									<b>CAS No</b>						
Diethylene glycol phthalate	1438	2	NI	2	NR	1	NI	0	0	(2)	(1)	2		S	2	
Diethylene glycol phthalate	247									<b>CAS No</b>						
Diethylenetriamine	638	0	1	1	(R)	2	NI	1	3	3	3A	3	Ss	FD	3	
Diethylenetriamine	248									<b>CAS No</b>	111-40-0					
Diethylenetriamine pentaacetic acid, pentapotassium salt solution (40%) (**)	2466	1	NI	1	NR	2	NI	NI	NI	NI	NI	NI		D	NI	
	3929									<b>CAS No</b>						
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									<b>CAS No</b>						
Diethylenetriamine pentamethylene phosphonic acid, pentasodium salt solution (47 %) (**)	2467	0	NI	0	R	2	NI	NI	NI	NI	NI	NI		D	NI	
	3930									<b>CAS No</b>						
Diethyl ethanolamine	622	0	NI	0	NR	3	NI	1	1	2	3	3		D	3	
Diethylaminoethanol	241									<b>CAS No</b>	100-37-8					
Diethyl ether	640	0	1	1	NR	0	NI	1	0	0	1	1		DE	2	
Diethyl ether	237									<b>CAS No</b>	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									<b>CAS No</b>	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									<b>CAS No</b>	298-07-7					

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 21 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Di-(2-ethylhexyl) phthalate	642	0	4	4	R	0	0	0	0	1	1	1	R	Fp	3	
Di-(2-ethylhexyl) phthalate	2751									<b>CAS No</b>	117-81-7					
Diethyl phthalate	648	3	3	3	R	2	0	0	0	(1)	1	1	S	1		
Diethyl phthalate	238									<b>CAS No</b>	84-66-2					
Diethyl sulphate	649	1	NI	1	R	(2)	NI	1	2	3	2	3	CM	SD	3	
Diethyl sulphate	239									<b>CAS No</b>	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									<b>CAS No</b>	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									<b>CAS No</b>	55492-52-9					
Diheptyl phthalate	655	0	(4)	(4)	R	0	NI	0	0	(1)	1	1	Fp	3		
Diheptyl phthalate	252									<b>CAS No</b>	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									<b>CAS No</b>	110-33-8					
Di-hexyl phthalate	2125	5	NI	5	R	0	2	0	0	(1)	1	1	R	Fp	3	
Dihexyl phthalate	253									<b>CAS No</b>	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									<b>CAS No</b>						
Diisobutene	575	4	4	4	NR	3	NI	0	0	0	1	0	FE	2		
Diisobutylene	257									<b>CAS No</b>	11071-47-9					
Diisobutylamine	576	(2)	NI	(2)	(R)	(3)	NI	2	(2)	2	(3)	(3)	FED	3		
Diisobutylamine	256									<b>CAS No</b>	110-96-3					
Diisobutyl ketone	579	3	NI	3	R	2	NI	0	0	2	2	2	F	2		
Diisobutyl ketone	254									<b>CAS No</b>	108-83-8					
Diisobutyl phthalate	581	4	(4)	4	R	(4)	1	0	0	1	0	0	S	3		
Diisobutyl phthalate	255									<b>CAS No</b>	84-69-5					
Diisodecyl phthalate	619	0	0	0	(R)	0	(0)	0	0	(1)	0	1	Fp	2		
Diisodecyl phthalate	3119									<b>CAS No</b>	26761-40-0					
Diisoheptyl phthalate	2391	0	(4)	(4)	R	0	0	0	0	(1)	1	1	R	Fp	3	
Diisoheptyl phthalate	3561									<b>CAS No</b>						

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 22 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Diisononyl adipate	690	0	NI	0	R	0	0	0	0	(1)	1	1		Fp	2	
Diisononyl adipate	258									<b>CAS No</b>	33703-08-1					
Diisononyl phthalate	691	0	0	0	R	0	0	0	0	(0)	0	0		Fp	2	
Diisononyl phthalate	3120									<b>CAS No</b>						
Diisooctyl phthalate	693	0	4	4	(R)	0	0	0	0	(1)	1	0		Fp	2	
Diisooctyl phthalate	259									<b>CAS No</b>	27554-26-3					
Diisopropanolamine	703	0	NI	0	NR	1	NI	0	0	0	2	3		FD	3	
Diisopropanolamine	260									<b>CAS No</b>	110-97-4					
Diisopropylamine	705	1	NI	1	NR	2	0	1	1	2	3	3		ED	3	
Diisopropylamine	261									<b>CAS No</b>	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									<b>CAS No</b>						
1,3-Diisopropylbenzene	706	5	4	4	NR	4	NI	0	0	2	2	1		F	2	
1,3-Diisopropyl benzene	2626									<b>CAS No</b>	25321-09-9					
Diisopropyl ether	711	1	NI	1	NR	2	NI	0	0	0	1	2		E	2	
Isopropyl ether	406									<b>CAS No</b>	108-20-3					
Diisopropynaphthalene, mixed isomers	712	5	4	4	NR	3	NI	0	0	(1)	1	1		Fp	2	
Diisopropynaphthalene	263									<b>CAS No</b>	38640-62-9					
Dimethyl acetamide	658	0	NI	0	R	1	NI	0	0	2	1	2		D	2	
N,N-Dimethylacetamide	2730									<b>CAS No</b>	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									<b>CAS No</b>	127-19-5					
Dimethyl adipate	659	1	NI	1	(R)	4	NI	0	0	(0)	1	1		SD	2	
Dimethyl adipate	264									<b>CAS No</b>	627-93-0					
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									<b>CAS No</b>	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									<b>CAS No</b>	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 45% but not greater than 55%)	271									<b>CAS No</b>	124-40-3					

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 23 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
N,N-Dimethyl cyclohexylamine	665	2	NI	2	NR	2	NI	1	2	3	3C	3		FD	3	
N,N-Dimethylcyclohexylamine	467									<b>CAS No</b>	98-94-2					
Dimethyl disulphide	1616	1	NI	1	NR	3	2	2	0	2	1	1		SD	2	
Dimethyl disulphide	2504									<b>CAS No</b>	624-92-0					
N,N-Dimethyldodecylamine	2126	3	NI	3	R	4	NI	1	(1)	(3)	3	3		F	3	
N,N-Dimethyldodecylamine	468									<b>CAS No</b>	112-18-5					
Dimethylethanolamine	667	0	NI	0	R	2	NI	1	1	2	3	3		D	3	
Dimethylethanolamine	273									<b>CAS No</b>	108-01-0					
Dimethyl formamide	676	0	0	0	R	1	0	0	1	2	1	2	R	D	3	
Dimethylformamide	274									<b>CAS No</b>	68-12-2					
Dimethyl glutarate	670	0	NI	0	R	3	NI	0	0	2	3	2	A	SD	3	
Dimethyl glutarate	265									<b>CAS No</b>	26717-67-9					
Dimethyl hydrogen phosphite	673	0	NI	0	NR	2	NI	1	0	0	1	1		D	1	
Dimethyl hydrogen phosphite	266									<b>CAS No</b>	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									<b>CAS No</b>	29662-90-6					
Dimethyl phthalate	678	2	2	2	R	2	0	0	0	(1)	0	1		SD	1	
Dimethyl phthalate	268									<b>CAS No</b>	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									<b>CAS No</b>	126-30-7					
Dimethyl succinate	681	0	NI	0	NI	2	NI	0	0	0	0	2		SD	2	
Dimethyl succinate	269									<b>CAS No</b>	106-65-0					
Dinitrotoluene	688	2	2	2	NR	4	2	2	(2)	(2)	1	0	CMR	S	3	
Dinitrotoluene (molten)	276									<b>CAS No</b>	25321-14-6					
Dinonyl phthalate	689	0	NI	0	R	0	0	0	0	(1)	1	1		Fp	2	
Dinonyl phthalate	2993									<b>CAS No</b>	84-76-4					
Di-n-octyl phthalate	692	0	(4)	(4)	(R)	0	0	0	0	(1)	1	(1)		Fp	2	
Diocetyl phthalate	277									<b>CAS No</b>	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									<b>CAS No</b>	123-91-1					

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 24 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Dipentene	686	4	NI	4	NR	2	NI	0	0	(2)	2	2	Ss	F	3	
Dipentene	278									<b>CAS No</b>	138-86-3					
Diphenyl	694	3	4	4	R	4	1	0	0	(1)	0	1		S	1	
Diphenyl	279									<b>CAS No</b>	92-52-4					
Diphenylamine (molten)	2186	3	3	3	NR	3	1	0	0	(1)	1	1		S	1	
Diphenylamine (molten)	285									<b>CAS No</b>						
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									<b>CAS No</b>						
Diphenylamines, alkylated	1770	5	NI	5	NR	(3)	NI	0	0	(1)	(1)	(1)		F	2	
Diphenylamines, alkylated	287									<b>CAS No</b>						
Diphenyl/Diphenyl ether (mixtures)	698	NI	NI	4	NR	4	1	0	0	(1)	1	1		(T)	S	1
Diphenyl/Diphenyl ether mixtures	283									<b>CAS No</b>	8004-13-5					
Diphenyl ether	699	4	4	4	NR	4	NI	0	0	0	1	1		T	S	1
Diphenyl ether	281									<b>CAS No</b>	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									<b>CAS No</b>						
Diphenylmethane-4,4'-diisocyanate (#)	700	5	2	2	NR	0	0	0	0	3	2	2	SsSr	S	3	
Diphenylmethane diisocyanate	288									<b>CAS No</b>	101-68-8					
Diphenylol propane-epichlorohydrin resins	2237	3	NI	3	NR	4	NI	0	0	(2)	1	2		S	2	
Diphenylol propane-epichlorohydrin resins	290									<b>CAS No</b>						
Di-n-propylamine	704	1	NI	1	NR	3	NI	2	2	2	3C	3		FED	3	
Di-n-propylamine	225									<b>CAS No</b>	142-84-7					
Dipropylene glycol	707	0	1	1	R	0	NI	0	0	0	0	1		D	1	
Dipropylene glycol	291									<b>CAS No</b>	25265-71-8					
Dipropylene glycol dibenzoate	708	3	NI	3	R	3	NI	0	0	0	0	0		S	0	
Dipropylene glycol dibenzoate	2431									<b>CAS No</b>	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									<b>CAS No</b>	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									<b>CAS No</b>						

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 25 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Dithiocarbamate ester (C7-C35)	2185	NI	2	2	NR	4	NI	0	0	(1)	1	1		S	1	
Dithiocarbamate ester (C7-C35)	2371									<b>CAS No</b>						
Ditridecyl adipate	2351	0	NI	0	NR	0	NI	0	0	(2)	2	1		Fp	2	
Ditridecyl adipate	293									<b>CAS No</b>						
Ditridecyl phthalate	714	0	(0)	0	NR	0	(0)	0	0	(1)	1	(1)		Fp	2	
Ditridecyl phthalate	2994									<b>CAS No</b>	119-06-2					
Diundecyl phthalate	715	0	(0)	0	NR	0	0	0	0	(1)	1	1		Fp	2	
Diundecyl phthalate	294									<b>CAS No</b>	3648-20-2					
Dodecane	718	5	NI	5	(R)	0	NI	0	0	(1)	(1)	(0)		Fp	2	
Dodecane (all isomers)	295									<b>CAS No</b>	112-40-3					
tert-Dodecanethiol	2233	5	4	4	NR	0	0	0	0	(2)	2	1	Ss	F	3	
tert-Dodecanethiol	2418									<b>CAS No</b>						
1-Dodecanol	719	5	2	2	R	4	1	0	0	(1)	1	(1)		Fp	2	
Dodecyl alcohol	298									<b>CAS No</b>	112-53-8					
Dodecene (all isomers)	720	5	NI	5	NR	4	NI	0	0	(2)	2	1	A	F	3	
Dodecene (all isomers)	296									<b>CAS No</b>						
1-Dodecene	2473	5	NI	5	R	0	NI	0	0	1	2	1	A	F	3	
1-Dodecene	3990									<b>CAS No</b>	112-41-4					
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									<b>CAS No</b>	57195-28-5					
Dodecylamine/Tetradecylamine mixture	721	3	NI	3	R	4	NI	1	0	(3)	3	3		F	3	
Dodecylamine/Tetradecylamine mixture	303									<b>CAS No</b>						
Dodecyl benzene	126	0	NI	0	NR	0	3	0	0	(2)	(2)	(1)		F	2	
Dodecylbenzene	304									<b>CAS No</b>	123-01-3					
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									<b>CAS No</b>						
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									<b>CAS No</b>						
Dodecyl hydroxypropyl sulphide (LOA)	1861	5	NI	5	NI	4	NI	0	0	(0)	0	0		FD	0	
Dodecyl hydroxypropyl sulphide	2252									<b>CAS No</b>						

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 26 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
n-Dodecyl mercaptan	2462	5	3	3	NR	5	NI	0	0	(3)	3	(3)	Ss	F	3	
n-Dodecyl mercaptan	3743									<b>CAS No</b>						
Dodecyl/octadecyl methacrylate (mixtures)	2116	(5)	NI	(5)	(NR)	(0)	NI	0	0	(1)	1	(1)		Fp	2	
Dodecyl/Octadecyl methacrylate mixture	1717									<b>CAS No</b>						
Dodecyl/pentadecyl methacrylate (mixture)	724	(5)	NI	(5)	(NR)	(0)	NI	0	(0)	(1)	(1)	(1)		Fp	2	
Dodecyl/Pentadecyl methacrylate mixture	302									<b>CAS No</b>						
Dodecyl phenol	725	0	4	4	NI	4	NI	0	0	(3)	3	2		Fp	3	
Dodecyl phenol	301									<b>CAS No</b>	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									<b>CAS No</b>						
Dodecylylene	1763	0	NI	0	NI	0	NI	0	0	(1)	1	1		Fp	2	
Dodecyl Xylene	306									<b>CAS No</b>						
Epichlorohydrin	731	0	0	0	R	2	NI	2	2	3	3A	3	CSs	D	3	
Epichlorohydrin	309									<b>CAS No</b>	106-89-8					
Ethanol	732	0	NI	0	R	0	NI	0	0	0	1	2		D	2	
Ethyl alcohol	315									<b>CAS No</b>	64-17-5					
Ethanolamine	733	0	NI	0	R	2	0	1	1	3	3A	3		D	3	
Ethanolamine	311									<b>CAS No</b>	141-43-5					
Ethanoltriazine (aqueous solution)	2411	(0)	NI	(0)	R	3	NI	1	0	4	0	2	Ss	D	3	
	4022									<b>CAS No</b>	4719-04-4					
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	3687									<b>CAS No</b>	4719-04-4					
Ethoxylated long chain (>C16)alkyloxyalkanamine (LOA)	2103	5	NI	5	NR	1	NI	0	0	(3)	3	(3)		Fp	3	
Ethoxylated long chain (C16+) alkyloxyalkylamine	2203									<b>CAS No</b>						
Ethoxylated tallow amine (>95%)	2313	0	NI	0	NR	4	NI	1	(1)	3	2	3	Ss	Fp	3	
Ethoxylated tallow amine (> 95%)	2959									<b>CAS No</b>						
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									<b>CAS No</b>						
Ethyl acetate	735	0	2	2	R	1	0	0	0	1	0	1		DE	2	
Ethyl acetate	312									<b>CAS No</b>	141-78-6					

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 27 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Ethyl acetoacetate	736	0	0	0	R	1	NI	0	0	(1)	1	1		D	1	
Ethyl acetoacetate	313									<b>CAS No</b>	141-97-9					
Ethyl acrylate	734	1	NI	1	R	3	1	1	2	2	2	2	CSs	T	ED	3
Ethyl acrylate	314									<b>CAS No</b>	140-88-5					
Ethylamine	1016	0	NI	0	R	2	NI	2	2	1	3	3		GD	3	
Ethylamine	322									<b>CAS No</b>	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									<b>CAS No</b>						
Ethyl amyl ketone	1784	2	NI	2	NI	2	NI	0	0	(2)	2	NI		FD	2	
Ethyl amyl ketone	316									<b>CAS No</b>	106-68-3					
Ethylbenzene	740	3	2	2	R	3	(1)	0	0	0	2	2	C	FE	3	
Ethylbenzene	324									<b>CAS No</b>	100-41-4					
N-Ethyl butylamine	745	1	NI	1	NI	NI	NI	1	1	2	3	3		FED	3	
N-Ethylbutylamine	477									<b>CAS No</b>	13360-63-9					
Ethyl tert-butyl ether	2085	1	NI	1	NI	2	NI	0	0	2	2	2		E	2	
Ethyl tert-butyl ether	320									<b>CAS No</b>	637-92-3					
Ethyl butyrate	748	1	NI	1	NI	2	NI	0	0	(2)	2	NI		FED	2	
Ethyl butyrate	317									<b>CAS No</b>	105-54-4					
Ethyl cyclohexane	751	4	4	4	NR	3	NI	(0)	(0)	(1)	(1)	(1)		FE	2	
Ethylcyclohexane	325									<b>CAS No</b>	1678-91-7					
N-Ethyl cyclohexylamine	752	2	NI	2	NI	(3)	NI	1	2	2	3	3		FED	3	
N-Ethylcyclohexylamine	478									<b>CAS No</b>	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									<b>CAS No</b>	759-94-4					
Ethylene carbonate	755	0	NI	0	R	0	NI	0	0	(2)	1	2		SD	2	
Ethylene carbonate	326									<b>CAS No</b>	96-49-1					
Ethylene chlorohydrin	756	0	0	0	R	3	NI	2	3	4	2	3		D	3	
Ethylene chlorohydrin	327									<b>CAS No</b>	107-07-3					
Ethylene cyanohydrin	757	0	0	0	NI	2	NI	1	0	(2)	1	2		D	2	
Ethylene cyanohydrin	328									<b>CAS No</b>	109-78-4					

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 28 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Ethylene diamine	758	0	1	1	R	3	1	1	2	1	3	3	SsSr	D	3	
Ethylenediamine	343									<b>CAS No</b>	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									<b>CAS No</b>	64-02-8					
Ethylene dibromide	760	1	2	2	NR	3	NI	2	2	2	3	3	CRT	SD	3	
Ethylene dibromide	329									<b>CAS No</b>	106-93-4					
Ethylene glycol	761	0	NI	0	R	0	NI	1	(1)	(1)	0	0	T	D	2	
Ethylene glycol	331									<b>CAS No</b>	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									<b>CAS No</b>	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									<b>CAS No</b>	112-07-2					
Ethylene glycol diacetate	765	0	NI	0	NI	2	NI	0	0	(1)	1	NI		D	1	
Ethylene glycol diacetate	335									<b>CAS No</b>	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									<b>CAS No</b>	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									<b>CAS No</b>	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									<b>CAS No</b>	110-49-6					
Ethylene glycol monoacetate	762	0	NI	0	R	2	NI	0	0	(3)	NI	(3)		D	3	
Ethylene glycol acetate	333									<b>CAS No</b>	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									<b>CAS No</b>						
Ethylene glycol monoethyl ether	766	0	NI	0	R	0	0	0	0	1	2	2		D	3	
2-Ethoxyethanol	40									<b>CAS No</b>	110-80-5					
Ethylene glycol phenyl ether	775	1	NI	1	R	1	0	1	0	0	1	2		SD	2	
Ethylene glycol phenyl ether	339									<b>CAS No</b>	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									<b>CAS No</b>						

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 29 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Ethylene glycol (>75%)/sodium alkyl carboxylates/borax mixture (#)	2477 4006	NI	(1)	(1)	R	1	NI	1	(1)	(2)	(1)	(1)	RT	D	3	
Ethylene glycol (>85%)/sodium alkyl carboxylates mixture (#)	2475 4005	NI	(1)	(1)	R	1	NI	1	(1)	(1)	0	0	T	D	2	
Ethylene oxide	77	NI	NI	NI	NI	NI	NI	NI	(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	NI	(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 2578	0	NI	0	R	1	NI	0	(0)	(0)	1	0		F	1	
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-Ethyldene-2-norbornene	783	3	3	3	NR	3	0	0	0	2	1	2		FE	2	
Ethyldiene 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	
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	788 535	2	NI	2	NI	(2)	NI	1	NI	NI	NI	NI		S	NI	
o-Ethylphenol													CAS No		90-00-6	

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 30 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Ethyl propionate	790	1	NI	1	NI	2	0	0	(1)	(2)	2	2		ED	2	
Ethyl propionate	319									<b>CAS No</b>	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									<b>CAS No</b>	645-62-5					
Ethyl toluene (all isomers)	2297	3	NI	3	NI	(3)	NI	0	0	0	2	2		F	2	
Ethyl toluene	346									<b>CAS No</b>						
Fatty acid methyl esters	2362	0	NI	0	R	2	NI	0	(0)	(2)	2	2		Fp	2	
Fatty acid methyl esters (m)	3125									<b>CAS No</b>						
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									<b>CAS No</b>						
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									<b>CAS No</b>						
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									<b>CAS No</b>						
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									<b>CAS No</b>						
Fatty acids saturated, C8-C10	2324	0	NI	0	R	4	NI	0	0	(3)	3C	3		Fp	3	
Fatty acids, (C8-C10)	3079									<b>CAS No</b>						
Fatty acids, unsaturated, linear, C16+	2259	0	0	0	R	(0)	NI	0	0	(0)	0	0		Fp	2	
Fatty acids, (C16+)	2778									<b>CAS No</b>						
Fatty alcohols, linear, (C12+)	2326	(5)	(2)	(2)	(R)	(4)	(1)	0	0	(1)	1	1		Fp	2	
Alcohols (C12+), primary, linear	3081									<b>CAS No</b>						
Fatty alcohols, linear, (C16+)	2327	(5)	(2)	(2)	(R)	(0)	(1)	0	0	(1)	1	1		Fp	2	
Alcohols, linear (C16+)	3082									<b>CAS No</b>						
Ferric chloride	339	Inorg	5	5	Inorg	2	0	1	(0)	(3)	2	3		D	3	
Ferric chloride solutions	348									<b>CAS No</b>	7705-08-0					
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 hydroxyethylethylenediametriacetic acid, trisodium salt solution	349									<b>CAS No</b>						
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									<b>CAS No</b>						

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 31 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
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													<b>CAS No</b>		
Fish silage protein concentrate (containing 4% or less formic acid)	2487	NI	0	0	R	2	NI	(0)	(0)	(0)	(1)	(1)			Fp	2
	4062													<b>CAS No</b>		
Fish solubles	1509	NI	NI	NI	NI	NI	NI	(0)	(0)	(0)	(0)	(0)			NI	NI
Fish solubles (water-based fish meal extract)	351													<b>CAS No</b>		
Fluorosilicic acid	806	Inorg	0	0	Inorg	2	NI	2	(2)	4	3	3			D	3
Fluorosilicic acid	2716								<b>CAS No</b>	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								<b>CAS No</b>							
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								<b>CAS No</b>	50-00-0						
Formaldehyde, polymer with isobutlenated phenol	2377	NI	NI	NI	NR	NI	NI	NI	NI	NI	NI	NI			Fp	NI
Formaldehyde, polymer with isobutlenated phenol	1203								<b>CAS No</b>							
Formamide	808	0	NI	0	NR	1	NI	0	0	1	1	2	R		D	3
Formamide	355								<b>CAS No</b>	75-12-7						
Formic acid	809	0	NI	0	R	2	NI	1	(1)	2	3C	3			D	3
Formic acid (85% or less acid)	356								<b>CAS No</b>	64-18-6						
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)	(3)			D	3
Formic acid mixture (containing up to 18% propionic acid and up to 25% sodium formate)	3684								<b>CAS No</b>							
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								<b>CAS No</b>	65997-04-8						
Furfural	812	0	NI	0	R	2	1	2	(2)	3	2	2	C		D	3
Furfural	358								<b>CAS No</b>	98-01-1						
Furfuryl alcohol	813	0	NI	0	R	1	NI	2	2	3	2	2			D	2
Furfuryl alcohol	359								<b>CAS No</b>	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								<b>CAS No</b>							
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								<b>CAS No</b>							

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 32 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Glycerine	814	0	NI	0	R	0	0	0	0	(1)	0	1		D	1	
Glycerine	363									<b>CAS No</b>	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%), Dioxanedi methanol (17%) mixture	364									<b>CAS No</b>						
Glycerol ethoxylated	2360	0	NI	0	R	0	NI	0	0	(0)	0	0		D	0	
Glycerol ethoxylated	3123									<b>CAS No</b>						
Glycerol monooleate	1898	0	0	0	R	0	NI	0	(0)	(1)	1	1		Fp	2	
Glycerol monooleate	365									<b>CAS No</b>	25496-72-4					
Glycerol propoxylated	2346	0	NI	0	NR	1	NI	1	0	(2)	1	0		D	2	
Glycerol propoxylated	3110									<b>CAS No</b>						
Glycerol, propoxylated and ethoxylated	2276	0	NI	0	NR	1	0	0	0	0	0	0		SD	2	
Glycerol, propoxylated and ethoxylated	2872									<b>CAS No</b>						
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									<b>CAS No</b>						
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									<b>CAS No</b>						
Glyceryl triacetate	816	0	NI	0	R	1	0	1	0	0	0	1		D	1	
Glyceryl triacetate	367									<b>CAS No</b>	102-76-1					
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									<b>CAS No</b>						
Glycine, Sodium salt, solution	817	0	NI	0	NI	0	NI	0	(0)	(1)	(0)	(1)		D	1	
Glycine, sodium salt solution	369									<b>CAS No</b>	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									<b>CAS No</b>						
Glyoxal solutions (40% or less)	84	0	NI	0	R	1	NI	0	0	0	2	2	3	MSsSr	D	3
Glyoxal solution (40% or less)	370									<b>CAS No</b>	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									<b>CAS No</b>	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									<b>CAS No</b>	1071-83-6					

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 33 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Grape Seed Oil	2442	(0)	NI	(0)	(R)	(0)	(0)	(0)	(0)	(1)	(0)	(1)		Fp	2	
Grape Seed Oil	3643										<b>CAS No</b>	8024-22-4				
Groundnut oil	820	0	NI	0	R	(2)	NI	(0)	(0)	(0)	(0)	0		Fp	2	
Groundnut oil	2769										<b>CAS No</b>	8002-03-7				
Heptane	827	4	NI	4	R	4	NI	0	0	0	(1)	1	A	E	2	
Heptane (all isomers)	372										<b>CAS No</b>	142-82-5				
Heptanoic acid	831	2	NI	2	R	1	NI	0	0	1	3B	(3)		FD	3	
n-Heptanoic acid	479										<b>CAS No</b>	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										<b>CAS No</b>					
1-Heptanol	828	2	NI	2	R	2	0	1	0	2	(2)	(2)		FD	2	
1-Heptanol	2688										<b>CAS No</b>	111-70-6				
Heptene (all isomers)	2225	3	NI	3	NI	2	NI	(0)	(0)	(0)	(2)	(1)		E	2	
Heptene (all isomers)	374										<b>CAS No</b>					
1-Heptene	832	3	NI	3	NI	2	NI	(0)	(0)	(0)	(2)	(1)		E	2	
1-Heptene	2685										<b>CAS No</b>					
Heptyl acetate	833	3	NI	3	(R)	(3)	NI	0	0	(2)	1	2		F	2	
Heptyl acetate	375										<b>CAS No</b>	112-06-1				
Hexadecyl naphthalene/dihexadecyl naphthalene mixture	2159	0	NI	0	NR	0	NI	0	0	(1)	1	1		Fp	2	
1-Hexadecyl naphthalene / 1,4-bis(hexadecyl)naphthalene mixture	2373										<b>CAS No</b>					
Hexamethylene diamine	845	0	NI	0	R	2	NI	1	1	(3)	3A	3	R	D	3	
Hexamethylenediamine solution	380										<b>CAS No</b>	124-09-4				
Hexamethylene diamine	845	0	NI	0	R	2	NI	1	1	(3)	3A	3	R	D	3	
Hexamethylenediamine (molten)	378										<b>CAS No</b>	124-09-4				
Hexamethylene diamine	845	0	NI	0	R	2	NI	1	1	(3)	3A	3	R	D	3	
Hexamethylenediamine	377										<b>CAS No</b>	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										<b>CAS No</b>	3323-53-3				
Hexamethylene diisocyanate	2142	3	0	0	NR	2	NI	1	2	4	3	3	SsSr	S	3	
Hexamethylene diisocyanate	18										<b>CAS No</b>	822-06-0				

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 34 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Hexamethylene glycol	847	0	NI	0	R	1	NI	0	0	(1)	0	1		D	1	
Hexamethylene glycol	376										<b>CAS No</b>	629-11-8				
Hexamethyleneimine	848	1	NI	1	NI	2	NI	3	1	2	2	2		FED	2	
Hexamethyleneimine	381										<b>CAS No</b>	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										<b>CAS No</b>	100-97-0				
Hexane	850	3	NI	3	R	4	NI	0	0	0	2	2	NA	E	2	
Hexane (all isomers)	383										<b>CAS No</b>	100-54-3				
Hexane	850	3	NI	3	R	4	NI	0	0	0	2	2	NA	E	2	
Hexane	2683										<b>CAS No</b>	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										<b>CAS No</b>					
Hexanoic acid	853	2	NI	2	R	2	NI	0	0	(3)	(3)	3		FD	3	
Hexanoic acid	384										<b>CAS No</b>	142-62-1				
1-Hexanol	854	1	0	0	(R)	2	NI	1	0	(3)	1	3		FD	3	
Hexanol	385										<b>CAS No</b>	111-27-3				
Hexene (all isomers)	2224	3	NI	3	R	3	NI	(0)	(0)	(1)	(1)	(1)		E	2	
Hexene (all isomers)	386										<b>CAS No</b>					
1-Hexene	855	3	NI	3	R	3	NI	0	0	0	1	1		E	2	
1-Hexene	2681										<b>CAS No</b>	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										<b>CAS No</b>					
Hexyl acetate	857	2	NI	2	NI	3	NI	0	0	(1)	1	1		FE	2	
Hexyl acetate	387										<b>CAS No</b>	142-92-7				
sec-Hexyl acetate	858	2	NI	2	NI	3	NI	0	0	0	1	(2)		FED	2	
Methylamyl acetate	456										<b>CAS No</b>	108-84-9				
Hexylene glycol	859	0	NI	0	R	0	0	0	0	(3)	2	3		D	2	
Hexylene glycol	388										<b>CAS No</b>	107-41-5				
Hydrocarbon waxes	2278	0	NI	0	NR	0	0	0	0	(0)	1	1		Fp	2	
Hydrocarbon waxes	2886										<b>CAS No</b>					

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 35 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Hydrochloric acid	864	Inorg	0	0	Inorg	1	NI	1	1	3	3C	3		DE	3	
Hydrochloric acid	389										<b>CAS No</b>	7647-01-0				
Hydrogenated Starch Hydrolysate	2347	0	NI	0	R	0	NI	0	0	(0)	0	0		D	0	
Hydrogenated starch hydrolysate	3077										<b>CAS No</b>					
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										<b>CAS No</b>	7722-84-1				
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										<b>CAS No</b>	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										<b>CAS No</b>					
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										<b>CAS No</b>					
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										<b>CAS No</b>	150-30-0				
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										<b>CAS No</b>	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										<b>CAS No</b>					
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										<b>CAS No</b>					
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										<b>CAS No</b>					
Interesterified Mixed Vegetable Oils	2355	0	NI	0	R	(0)	NI	(0)	(0)	(1)	(1)	(1)		Fp	2	
Interesterified vegetable oils	3115										<b>CAS No</b>					
Isobutanol	382	0	NI	0	R	1	0	0	0	1	2	3		D	3	
Isobutyl alcohol	397										<b>CAS No</b>	78-83-1				
Isobutyl formate	405	1	NI	1	NI	1	NI	0	(0)	0	(1)	(2)		E	2	
Isobutyl formate	398										<b>CAS No</b>	542-55-2				
Isobutyl methacrylate	408	2	NI	2	NR	1	NI	0	0	0	2	2	Ss	FED	2	
Isobutyl methacrylate	2673										<b>CAS No</b>	97-86-9				

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 36 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Isobutyric acid	419	0	NI	0	R	2	NI	2	2	(3)	3	3		E	NI	
Isobutyric acid	2459										<b>CAS No</b>	79-31-2				
Isodecanol	557	3	2	2	R	3	NI	0	0	0	2	1		Fp	2	
Decyl alcohol (all isomers)	219										<b>CAS No</b>	25339-17-7				
Isononanol	1059	3	NI	3	NR	3	1	0	0	(2)	2	2		Fp	2	
Nonyl alcohol (all isomers)	510										<b>CAS No</b>	2430-22-0				
Isononylaldehyde	2300	3	NI	3	NR	(3)	NI	0	0	(2)	2	1		F	2	
Isononylaldehyde	2754										<b>CAS No</b>					
Isooctaldehyde	1071	2	NI	2	NI	3	NI	0	0	(1)	1	1		F	1	
Octyl aldehydes	542										<b>CAS No</b>	63885-09-6				
Isooctanol	1076	3	NI	3	R	2	0	1	0	(2)	2	(2)		F	2	
iso-Octanol	2675										<b>CAS No</b>	26952-21-6				
Isooctylamine	1081	2	NI	2	NI	3	NI	1	1	3	3	3		FD	3	
2-Ethylhexylamine	48										<b>CAS No</b>	104-75-6				
Isopentene	1113	2	NI	2	NI	2	NI	(0)	(0)	(0)	(0)	(1)		E	2	
iso-Pentene	2677										<b>CAS No</b>	563-45-1				
Isophorone	879	1	1	1	R	2	0	1	1	(2)	1	2		FD	2	
Isophorone	399										<b>CAS No</b>	78-59-1				
Isophorone diamine	880	0	0	0	NR	2	0	1	(1)	(3)	3	3	Ss	D	3	
Isophoronediamine	401										<b>CAS No</b>	2855-13-2				
Isophorone diisocyanate	881	1	NI	1	NR	3	NI	0	0	3	3	3	SsSr	S	3	
Isophorone diisocyanate	400										<b>CAS No</b>	4098-71-9				
Isoprene	882	2	2	2	NR	3	1	0	0	0	1	2	CM	E	3	
Isoprene	402										<b>CAS No</b>	78-79-5				
Isopropanol	1181	0	NI	0	R	0	0	0	0	0	1	2		D	2	
Isopropyl alcohol	405										<b>CAS No</b>	67-63-0				
Isopropanolamine	1182	0	NI	0	R	2	NI	0	1	0	3	3		D	3	
Isopropanolamine	403										<b>CAS No</b>	78-96-6				
Isopropyl acetate	1192	1	NI	1	R	1	NI	0	0	0	1	2		ED	2	
Isopropyl acetate	404										<b>CAS No</b>	108-21-4				

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 37 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Isopropylamine	1195	0	NI	0	R	2	NI	2	2	1	3	3		DE	3	
Isopropylamine	407												<b>CAS No</b>	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												<b>CAS No</b>			
Isopropyl benzene	1197	3	2	2	R	3	NI	0	0	0	2	1		FE	2	
Isopropylbenzene	2687												<b>CAS No</b>	98-82-8		
Isopropyl benzene	1197	3	2	2	R	3	NI	0	0	0	2	1		FE	2	
Propylbenzene (all isomers)	623												<b>CAS No</b>	98-82-8		
Isopropyl cyclohexane	1199	4	NI	4	(NR)	(3)	NI	(0)	(0)	(1)	(0)	(1)		FE	2	
Isopropylcyclohexane	408												<b>CAS No</b>	696-29-7		
Isopropyltoluenes	549	4	4	4	(NR)	3	NI	0	(0)	1	2	(1)		FE	2	
p-Cymene	552												<b>CAS No</b>	99-87-6		
Isovaleraldehyde	1390	1	NI	1	R	3	NI	0	0	0	2	2		D	2	
Valeraldehyde (all isomers)	731												<b>CAS No</b>	590-86-3		
Jatropha oil	2402	0	NI	(0)	(R)	(2)	NI	(0)	(0)	(0)	(0)	(0)		Fp	2	
Jatropha oil	3637												<b>CAS No</b>			
Kaolin slurry	883	Inorg	NI	0	Inorg	0	NI	0	0	0	0	0		S	0	
Kaolin slurry	409												<b>CAS No</b>	1332-58-7		
Lactic acid	886	0	NI	0	R	1	NI	0	0	(3)	2	3		D	3	
Lactic acid	410												<b>CAS No</b>	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												<b>CAS No</b>	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												<b>CAS No</b>			
Latex, ammonia inhibited	889	0	NI	0	NI	(2)	NI	0	0	0	(1)	0	1		D	1
Latex, ammonia (1% or less)- inhibited	413												<b>CAS No</b>			
Lauric acid	891	4	NI	4	R	4	1	0	(0)	(2)	1	2		Fp	2	
Lauric acid	415												<b>CAS No</b>	143-07-7		
Lauroamidopropyl betaine solution (#)	2479	(4)	(2)	(2)	R	(4)	(1)	(0)	(0)	(3)	(1)	(3)		D	3	
	4055												<b>CAS No</b>	4292-10-8		

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 38 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Lauryl methacrylate	893	0	2	2	R	0	0	0	(0)	(1)	1	1		F	1	
Dodecyl methacrylate	300									<b>CAS No</b>	142-90-5					
Lecithin (soybeans)	2146	0	NI	0	R	0	NI	0	0	(0)	0	(0)		SD	0	
Lecithin	417									<b>CAS No</b>						
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									<b>CAS No</b>						
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									<b>CAS No</b>						
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									<b>CAS No</b>						
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									<b>CAS No</b>						
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									<b>CAS No</b>						
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									<b>CAS No</b>						
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									<b>CAS No</b>						
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									<b>CAS No</b>						
Long-chain polyetheramine in alkyl(C2-C4)benzenes	1457	NI	NI	NI	NR	2	NI	0	0	(2)	2	2		Fp	2	
	422									<b>CAS No</b>						
Lubrizol polyolefin anhydride	1865	0	NI	0	NR	1	NI	0	0	(2)	1	(2)		Fp	2	
Polyolefin anhydride	605									<b>CAS No</b>						
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									<b>CAS No</b>						
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									<b>CAS No</b>						
Magnesium chloride	915	Inorg	0	0	Inorg	1	0	0	0	(0)	0	0		D	0	
Magnesium chloride solution	427									<b>CAS No</b>	7786-30-3					

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 39 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Magnesium hydroxide slurry	916	Inorg	0	0	Inorg	0	NI	0	0	(1)	(0)	1		S	1	
Magnesium hydroxide slurry	428									<b>CAS No</b>	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									<b>CAS No</b>						
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									<b>CAS No</b>						
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									<b>CAS No</b>						
Maleic anhydride	921	1	NI	1	R	2	0	1	2	(3)	3	3	SsSr	D	3	
Maleic anhydride	431									<b>CAS No</b>	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									<b>CAS No</b>						
Maltitol Syrup	2348	0	NI	0	R	0	NI	0	0	(0)	0	0		D	0	
Maltitol solution	3078									<b>CAS No</b>						
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									<b>CAS No</b>						
2-Mercaptobenzothiazol	925	2	1	1	NR	4	2	0	0	(0)	0	0	Ss	S	2	
Mercaptobenzothiazol, sodium salt solution	432									<b>CAS No</b>	149-30-4					
Mesityl oxide	946	1	NI	1	R	(1)	NI	1	0	2	2	2		D	2	
Mesityl oxide	433									<b>CAS No</b>	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									<b>CAS No</b>	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									<b>CAS No</b>						
Methacrylic acid, inhibited	948	0	NI	0	R	2	0	1	2	2	3	3		D	3	
Methacrylic acid	435									<b>CAS No</b>	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									<b>CAS No</b>						

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 40 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Methacrylonitrile	949	0	NI	0	R	2	0	2	2	3	1	1	Ss	NT	ED	3
Methacrylonitrile	437												<b>CAS No</b>	126-98-7		
Methanol	951	0	NI	0	R	0	0	(2)	(2)	(2)	2	2	T		DE	3
Methyl alcohol	441												<b>CAS No</b>	67-56-1		
(2-Methoxymethylethoxy)propanols	2452	0	NI	0	R	0	(0)	0	0	(0)	0	0			D	0
	3870												<b>CAS No</b>			
Methyl acetate	954	0	NI	0	R	1	NI	0	0	0	1	2			DE	2
Methyl acetate	438												<b>CAS No</b>	79-20-9		
Methyl acetoacetate	335	0	NI	0	R	1	NI	0	0	(2)	1	2			D	2
Methyl acetoacetate	439												<b>CAS No</b>	105-45-3		
Methyl acrylate	955	0	NI	0	R	3	NI	1	1	2	2	3	MSs		D	3
Methyl acrylate	440												<b>CAS No</b>	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												<b>CAS No</b>	74-89-5		
Methyl amyl alcohol	958	1	NI	1	R	1	NI	1	0	2	1	3			FED	3
Methylamyl alcohol	457												<b>CAS No</b>	108-11-2		
Methyl amyl ketone	959	1	NI	1	NI	1	NI	1	0	0	1	1			FED	2
Methyl amyl ketone	442												<b>CAS No</b>	110-43-0		
N-Methyl aniline	961	1	NI	1	(NR)	3	1	1	1	(2)	(1)	1			FD	2
N-Methylaniline	3107												<b>CAS No</b>	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												<b>CAS No</b>	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												<b>CAS No</b>	75-85-4		
3-Methyl-1-butanol	965	1	1	1	(R)	1	0	1	0	(2)	2	2			FED	2
Isoamyl alcohol	396												<b>CAS No</b>	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												<b>CAS No</b>	123-51-3		
Methyl butenol	967	0	NI	0	R	2	NI	1	0	(2)	2	2			D	2
Methylbutenol	458												<b>CAS No</b>	556-82-1		

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 41 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Methyl tert-butyl ether	969	1	NI	1	NR	1	0	0	0	0	2	1		T	ED	2
Methyl tert-butyl ether	454												<b>CAS No</b>	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												<b>CAS No</b>	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												<b>CAS No</b>	115-19-5		
Methylbutynol	968	0	NI	0	NR	1	NI	1	1	0	0	2			D	2
Methylbutynol	459												<b>CAS No</b>	115-19-5		
Methyl butyrate	973	1	NI	1	NI	(2)	NI	0	0	2	2	(2)		ED	2	
Methyl butyrate	444												<b>CAS No</b>	623-42-7		
Methyl cyclohexane	976	3	3	3	NR	3	1	0	0	1	1	1	A		E	2
Methylcyclohexane	460												<b>CAS No</b>	108-87-2		
Methyl cyclopentadiene, dimer	977	4	NI	4	(NR)	(3)	NI	0	(0)	(2)	(2)	(2)			F	2
Methylcyclopentadiene dimer	461												<b>CAS No</b>	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												<b>CAS No</b>			
N-Methyldiethanolamine	1491	0	NI	0	R	2	NI	1	0	(2)	1	2			D	2
Methyl diethanolamine	445												<b>CAS No</b>	105-59-9		
Methylene dithiocyanate	2235	2	NI	2	NR	5	NI	2	0	4	3	3	Ss		NI	3
Methylene bisthiocyanate	2693												<b>CAS No</b>	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												<b>CAS No</b>	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												<b>CAS No</b>	104-90-5		
Methyl formate	987	0	NI	0	R	1	NI	1	0	2	0	2			DE	2
Methyl formate	447												<b>CAS No</b>	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												<b>CAS No</b>	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												<b>CAS No</b>	4553-62-2		

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 42 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Methyl heptyl ketone	988	3	NI	3	R	3	NI	0	0	NI	NI	NI		FED	NI	
Methyl heptyl ketone	448									<b>CAS No</b>	821-55-6					
Methyl isobutyl ketone	971	1	NI	1	R	1	0	1	0	2	2	3		FED	3	
Methyl isobutyl ketone	449									<b>CAS No</b>	108-10-1					
Methyl methacrylate	995	1	NI	1	R	2	NI	0	0	0	2	2	Ss	ED	2	
Methyl methacrylate	450									<b>CAS No</b>	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									<b>CAS No</b>						
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									<b>CAS No</b>						
Methyl naphthalenes	1999	4	NI	4	(NR)	(4)	NI	1	0	(2)	1	1		T	F	2
Methyl naphthalene (molten)	451									<b>CAS No</b>						
2-Methyl pentane	1000	3	NI	3	NI	4	NI	(0)	(0)	(2)	(2)	(2)		E	2	
2-Methylpentane	2684									<b>CAS No</b>	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									<b>CAS No</b>						
Methyl propyl ketone	1003	0	NI	0	(R)	0	NI	1	0	(2)	1	2		FED	2	
Methyl propyl ketone	452									<b>CAS No</b>	107-87-9					
2-Methyl pyridine	1005	1	NI	1	R	1	NI	1	2	1	3A	3		D	3	
2-Methylpyridine	55									<b>CAS No</b>	109-06-8					
3-Methylpyridine	1006	1	NI	1	R	1	NI	1	2	2	3	3		D	3	
3-Methylpyridine	61									<b>CAS No</b>	108-99-6					
4-Methylpyridine	1007	1	NI	1	(R)	1	NI	1	2	2	3	3		D	3	
4-Methylpyridine	63									<b>CAS No</b>	108-89-4					
N-Methylpyrrolidone	1008	0	NI	0	R	1	NI	0	0	0	2	1	R	D	3	
N-Methyl-2-pyrrolidone	481									<b>CAS No</b>	872-50-4					
Methyl salicylate	86	2	NI	2	R	2	NI	1	1	(2)	2	1	R	SD	3	
Methyl salicylate	453									<b>CAS No</b>	119-36-8					
alpha-Methylstyrene	1010	3	3	3	NR	3	NI	0	0	1	2	1	M	(T)	FE	3
alpha-Methylstyrene	107									<b>CAS No</b>	98-83-9					

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 43 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
3-(Methylthio) propionaldehyde	993	0	NI	0	R	3	1	1	1	2	2	3	NSs	T	D	3
3-(methylthio)propionaldehyde	2368									<b>CAS No</b>	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									<b>CAS No</b>	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									<b>CAS No</b>						
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									<b>CAS No</b>						
Molasses	1013	0	NI	0	R	0	NI	0	0	0	0	0			D	0
Molasses	462									<b>CAS No</b>						
Molybdenum polysulphide long chain alkyl dithiocarbamide complex	2344	4	2	2	NR	2	0	0	0	(2)	2	2			Fp	2
Molybdenum polysulphide long chain alkyl dithiocarbamide complex	3108									<b>CAS No</b>						
Mononitrobenzene	1017	1	1	1	R	3	(4)	(2)	2	2	1	1	CRT		SD	3
Nitrobenzene	501									<b>CAS No</b>	98-95-3					
Morpholine	1018	0	0	0	R	2	NI	1	2	2	3	3			D	3
Morpholine	463									<b>CAS No</b>	110-91-8					
Myrcene	1019	4	NI	4	R	4	1	0	0	(2)	2	NI			F	2
Myrcene	465									<b>CAS No</b>	123-35-3					
Naphthalene (molten)	1	3	3	3	NR	4	1	1	(0)	(1)	0	0	T	T	S	2
Naphthalene (molten)	493									<b>CAS No</b>	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									<b>CAS No</b>	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									<b>CAS No</b>	9084-06-4					
Neodecanoic acid	1025	4	NI	4	NR	2	NI	0	0	(2)	0	2			Fp	2
Neodecanoic acid	496									<b>CAS No</b>	26896-20-8					
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									<b>CAS No</b>	7697-37-2					
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									<b>CAS No</b>	7697-37-2					

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 44 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Nitrolotriacetic acid, trisodium salt	1030	0	NI	0	R	1	0	1	(0)	0	1	1	CMR	D	3	
Nitrolotriacetic acid, trisodium salt solution	500									<b>CAS No</b>	5094-31-3					
Nitroethane	1037	0	NI	0	NR	2	NI	1	0	(2)	(0)	(1)		SD	2	
Nitroethane	502									<b>CAS No</b>	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									<b>CAS No</b>						
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									<b>CAS No</b>						
2-Nitrophenol	1041	1	2	2	R	3	(2)	0	0	(1)	1	1		S	1	
o-Nitrophenol (molten)	536									<b>CAS No</b>	88-75-5					
1-Nitropropane	1044	0	1	1	NR	1	NI	1	0	2	0	1		FED	2	
1-Nitropropane	2747									<b>CAS No</b>	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									<b>CAS No</b>						
2-Nitropropane	1045	0	1	1	NR	2	NI	2	0	2	0	0	C	FED	3	
2-Nitropropane	2748									<b>CAS No</b>	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									<b>CAS No</b>						
o-Nitrotoluene	1049	2	2	2	NR	2	(1)	1	0	(2)	0	1	CMR	S	3	
o-Nitrotoluene	2745									<b>CAS No</b>	88-72-2					
p-Nitrotoluene	1051	2	1	1	NR	3	0	1	0	(2)	0	1	R	S	3	
p-Nitrotoluene	2746									<b>CAS No</b>	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									<b>CAS No</b>						
Nonane	1054	4	NI	4	R	4	NI	0	0	1	1	1	A	FE	2	
Nonane (all isomers)	506									<b>CAS No</b>	111-84-2					
Nonanoic acid	1055	3	NI	3	R	2	NI	0	0	(3)	2	3		F	3	
Nonanoic acid (all isomers)	507									<b>CAS No</b>	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									<b>CAS No</b>						

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 45 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
1-Nonene	1060	4	NI	4	NI	3	NI	0	0	0	1	1	A	FE	2	
1-Nonene	2680									<b>CAS No</b>	27215-95-8					
Nonyl acetate	1766	4	NI	4	NI	NI	NI	0	0	NI	NI	NI		F	NI	
Nonyl acetate	509									<b>CAS No</b>	143-13-5					
Nonyl methacrylate monomer	1061	5	NI	5	R	3	NI	(0)	(0)	(1)	(1)	(1)		F	1	
Nonyl methacrylate monomer	511									<b>CAS No</b>	2696-43-7					
Nonyl phenol	1062	5	4	4	NR	5	3	1	0	(3)	3	3		Fp	3	
Nonylphenol	512									<b>CAS No</b>	25154-52-3					
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									<b>CAS No</b>						
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									<b>CAS No</b>						
Octamethylcyclotetrasiloxane	2398	5	5	5	NR	0	3	0	0	0	0	0		F	1	
Octamethylcyclotetrasiloxane	3633									<b>CAS No</b>						
Octane	1072	5	NI	5	(R)	4	NI	(0)	(0)	0	0	0	A	FE	2	
Octane (all isomers)	538									<b>CAS No</b>	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									<b>CAS No</b>	124-07-2					
1-Octanol	1075	3	NI	3	R	2	0	1	0	(2)	2	2		Fp	2	
1-Octanol	2676									<b>CAS No</b>	111-87-5					
1-Octanol	1075	3	NI	3	R	2	0	1	0	(2)	2	2		Fp	2	
Octanol (all isomers)	540									<b>CAS No</b>	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									<b>CAS No</b>						
Octyl acetate	1080	3	NI	3	R	2	NI	0	0	(1)	1	NI		FD	1	
n-Octyl acetate	483									<b>CAS No</b>	112-14-1					
Octyl decyl adipate	1082	0	NI	0	(R)	(0)	(0)	(0)	(0)	(1)	(1)	(1)		Fp	2	
Octyl decyl adipate	543									<b>CAS No</b>	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									<b>CAS No</b>						

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 46 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
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												<b>CAS No</b>			
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												<b>CAS No</b>	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												<b>CAS No</b>			
Olefin mixtures (C5-C15)	2321	(5)	NI	(5)	NR	(4)	NI	(0)	(0)	(2)	(2)	(1)	A		FE	2
Olefin mixtures (C5-C15)	544												<b>CAS No</b>			
Olefins C13 and above, all isomers	2028	5	NI	5	NR	0	NI	0	0	(0)	0	0			Fp	2
Olefins (C13+, all isomers)	547												<b>CAS No</b>			
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												<b>CAS No</b>			
Oleic acid	1089	0	NI	0	R	0	NI	0	1	(2)	1	1			Fp	2
Oleic acid	548												<b>CAS No</b>	112-80-1		
Oleylamine	1862	0	NI	0	NR	4	NI	1	(1)	(3)	3B	3			Fp	3
Oleylamine	550												<b>CAS No</b>			
Olive oil	1090	0	NI	0	R	(2)	NI	(0)	(0)	(1)	1	1			Fp	2
Olive oil	2771												<b>CAS No</b>	8001-25-0		
Orange juice	2375	0	0	0	R	0	0	0	0	(0)	0	0			D	0
Orange juice	3151												<b>CAS No</b>			
Orange juice (not concentrated)	2382	0	0	0	R	0	0	0	0	(0)	0	0			D	0
Orange juice (not concentrated)	3425												<b>CAS No</b>			
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												<b>CAS No</b>			
Oxygenated aliphatic hydrocarbon mixture	2266	5	2	(2)	NR	1	NI	0	0	(1)	1	1			FE	2
Oxygenated aliphatic hydrocarbon mixture	2825												<b>CAS No</b>			
Palm acid oil	2307	(0)	NI	(0)	(R)	(0)	NI	0	(0)	(1)	0	1			Fp	2
Palm acid oil	3037												<b>CAS No</b>			
Palm fatty acid distillate	2310	NI	NI	(0)	(R)	(0)	NI	0	(0)	(1)	0	1			Fp	2
Palm fatty acid distillate	3040												<b>CAS No</b>			

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 47 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
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													<b>CAS No</b>		
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													<b>CAS No</b>		
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													<b>CAS No</b>		
Palm Mid Fraction	2363	(0)	NI	(0)	(R)	(0)	NI	0	0	(0)	(0)	(0)		Fp	2	
Palm mid-fraction	3126													<b>CAS No</b>		
Palm nut oil	1094	0	NI	0	R	1	NI	(0)	(0)	(1)	(0)	(1)		Fp	2	
Palm kernel oil	2766													<b>CAS No</b>		
Palm nut oil fatty acid	1095	0	NI	0	R	(3)	NI	0	0	(2)	1	2		Fp	2	
Palm kernel acid oil	553													<b>CAS No</b>		
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													<b>CAS No</b>		
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													<b>CAS No</b>		
Palm oil fatty acid methyl ester	1097	0	NI	0	R	0	NI	0	0	0	0	0		Fp	2	
Palm oil fatty acid methyl ester	554													<b>CAS No</b>		
Palm olein	2250	0	NI	0	R	0	NI	0	(0)	(0)	0	0		Fp	2	
Palm olein	2765													<b>CAS No</b>		
Palm stearin	2251	0	NI	0	R	0	NI	0	(0)	(0)	0	0		Fp	2	
Palm stearin	555													<b>CAS No</b>		
Paraffin wax	1086	0	NI	0	R	0	NI	(0)	(0)	(1)	1	1		Fp	2	
Paraffin wax	556													<b>CAS No</b>	8002-74-2	
Paraldehyde	1098	0	0	0	NR	0	NI	1	0	0	1	3		D	3	
Paraldehyde	557													<b>CAS No</b>	123-63-7	
Pentachloroethane	1099	3	2	2	NI	3	1	1	(1)	1	(1)	(1)	CT	S	3	
Pentachloroethane	558													<b>CAS No</b>	76-01-7	
1,3-Pentadiene	1102	2	NI	2	NR	2	NI	0	0	0	1	(2)		E	2	
1,3-Pentadiene	14													<b>CAS No</b>	504-60-9	

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 48 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
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												<b>CAS No</b>			
Pentaethylene hexamine	1103	0	NI	0	NI	4	NI	1	(2)	(3)	3	(3)	Ss	D	3	
Pentaethylenehexamine	560												<b>CAS No</b>	4067-16-7		
Pentane	1105	3	NI	3	R	3	NI	0	0	0	1	1		E	2	
Pentane (all isomers)	561												<b>CAS No</b>	109-66-0		
1,5-Pantanediol solution, (5-50%) (#)	1107	0	NI	0	R	3	0	1	0	3	3	3	SsSr	D	3	
Glutaraldehyde solutions (50% or less)	362												<b>CAS No</b>	111-30-8		
Pentanoic acid	1109	1	NI	1	NI	2	NI	1	2	(3)	3	3		FD	3	
Pentanoic acid	562												<b>CAS No</b>	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												<b>CAS No</b>			
1-Pentanol	1110	1	1	1	(R)	1	0	1	0	(3)	2	3		FED	3	
n-Amyl alcohol	473												<b>CAS No</b>	71-41-0		
2-Pentanol	1111	1	1	1	R	1	0	0	(0)	(2)	2	2		D	2	
sec-Amyl alcohol	637												<b>CAS No</b>	6032-29-7		
Pentasodium triphosphate (*)	2418	Inorg	0	0	Inorg	1	NI	NI	NI	NI	NI	NI		NI	NI	
	3694												<b>CAS No</b>			
Pentene (all isomers)	1992	2	NI	2	NI	(2)	NI	(0)	(0)	(0)	(0)	(1)		E	2	
Pentene (all isomers)	563												<b>CAS No</b>			
1-Pentene	1114	2	NI	2	NI	(2)	NI	(0)	(0)	0	(0)	(1)		E	2	
1-Pentene	2679												<b>CAS No</b>	109-67-1		
2-Pentene	1115	2	NI	2	NI	2	NI	(0)	(0)	(0)	(0)	(1)		E	2	
2-Pentene	2678												<b>CAS No</b>	109-68-2		
Petrolatum	2244	0	NI	0	NR	0	NI	0	0	0	2	1	1		Fp	2
Petrolatum	565												<b>CAS No</b>			
Petroleum wax	1122	0	NI	0	NR	0	NI	0	0	(0)	0	0		Fp	2	
Waxes	741												<b>CAS No</b>	8002-74-2		
Phenol	1124	1	2	2	R	3	0	2	2	(3)	3	3		NT	S	3
Phenol	566												<b>CAS No</b>	108-95-2		

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 49 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Phenylxylylethane	1135	5	4	4	NR	(2)	NI	1	0	(1)	(0)	0		F	1	
1-Phenyl-1-xylyl ethane	23									<b>CAS No</b>	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									<b>CAS No</b>						
Phosphoric acid	1138	0	NI	0	Inorg	1	NI	1	1	3	3	3		D	3	
Phosphoric acid	567									<b>CAS No</b>	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									<b>CAS No</b>	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									<b>CAS No</b>	85-44-9					
alpha-Pinene	40	4	NI	4	R	4	NI	0	0	0	1	(1)	Ss	T	F	3
alpha-Pinene	109									<b>CAS No</b>	80-56-8					
beta-Pinene	41	4	NI	4	(R)	4	NI	0	0	0	1	(1)	Ss	NT	F	3
beta-Pinene	141									<b>CAS No</b>	1330-16-1					
Pine oil	1148	4	NI	4	NR	4	NI	0	0	(1)	(1)	(1)	Ss	(T)	Fp	3
Pine oil	570									<b>CAS No</b>	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									<b>CAS No</b>	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									<b>CAS No</b>						
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									<b>CAS No</b>						
Polyalkene sulphonic acid (C20-C28), sodium salt (#)	2481	(5)	(4)	(4)	(NR)	1	0	(1)	(0)	(2)	(2)	(2)		Fp	2	
	4057									<b>CAS No</b>						
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									<b>CAS No</b>						
Polyalkylalkenaminesuccinimide, molybdenum oxysulphide	2379	NI	0	0	NR	0	NI	0	0	(0)	0	0		Fp	2	
Polyalkylalkenaminesuccinimide, molybdenum oxysulphide	3422									<b>CAS No</b>						

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 50 of 66

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	1152	1	NI	1	R	1	0	0	0	0	2	2		D	2	
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	576												<b>CAS No</b>			
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												<b>CAS No</b>			
Poly N-alkylmethacrylamide ammonium acrylate copolymer (20 % in DEGME) (**)	2468	0	NI	0	NR	2	NI	NI	NI	NI	NI	NI		D	NI	
	3931												<b>CAS No</b>			
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												<b>CAS No</b>			
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												<b>CAS No</b>			
Polyaluminium chloride (sol.)	1136	Inorg	0	0	Inorg	0	NI	(0)	(0)	(1)	(0)	(1)		D	1	
Polyaluminium chloride solution	584												<b>CAS No</b>	1327-41-9		
Polybutene	1154	0	NI	0	(NR)	(0)	(0)	(0)	(0)	(0)	(0)	(0)		Fp	2	
Polybutene	585												<b>CAS No</b>	9003-29-6		
Polybutenylsuccinimide in oil	2055	5	NI	5	NR	0	NI	(0)	(0)	(0)	0	(0)		Fp	2	
Polybutenyl succinimide	586												<b>CAS No</b>			
Poly(2+)cyclic aromatics	2246	4	4	4	NR	(4)	NI	(1)	(1)	(2)	(1)	(1)	CM	S	3	
Poly(2+)cyclic aromatics	574												<b>CAS No</b>			
Polyether, borated	1863	0	NI	0	NR	3	1	0	(0)	(1)	1	0		D	1	
Polyether, borated	572												<b>CAS No</b>			
Polyether (molecular weight 2000+) (LOA)	1975	0	NI	0	NR	1	NI	0	(0)	(0)	0	0		Fp	2	
Polyether (molecular weight 1350+)	587												<b>CAS No</b>			
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												<b>CAS No</b>			
Polyethylene glycol	1157	0	NI	0	NR	0	NI	0	0	0	1	1		D	1	
Polyethylene glycol	589												<b>CAS No</b>	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												<b>CAS No</b>	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												<b>CAS No</b>			

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 51 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Polyethylene polyamines	2367	0	NI	0	NR	3	0	1	0	(3)	2	(3)	Ss	D	3	
Polyethylene polyamines	3131												<b>CAS No</b>			
Polyferric sulphate solution	338	Inorg	0	0	Inorg	(2)	NI	1	(1)	(3)	3	(3)		D	3	
Polyferric sulphate solution	592												<b>CAS No</b>			
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												<b>CAS No</b>			
Polyglycerol	1511	NI	NI	NI	NI	NI	NI	0	(0)	(0)	(0)	(0)		D	0	
Polyglycerol	594												<b>CAS No</b>			
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												<b>CAS No</b>			
Polyisobut enamine in aliphatic (C10-C14) solvent	2192	0	0	0	NR	2	NI	0	(0)	(2)	2	1		FED	2	
Polyisobut enamine in aliphatic (C10-C14) solvent	2374												<b>CAS No</b>			
(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												<b>CAS No</b>			
Polyisobut enyl anhydride adduct	2127	0	NI	0	NR	0	NI	0	0	(1)	0	1		FD	1	
Polyisobut enyl anhydride adduct	2256												<b>CAS No</b>			
Poly(4+)-isobutylene	2264	0	NI	0	NR	0	NI	(0)	(0)	(0)	(0)	(0)		Fp	2	
Polyisobutylene (MW≤224)	578												<b>CAS No</b>			
Polymethylene polyphenyl isocyanate	1153	NI	(2)	(2)	NR	0	0	0	0	(2)	2	2	SsSr	S	2	
Polymethylene polyphenyl isocyanate	595												<b>CAS No</b>	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												<b>CAS No</b>			
Polyolefin amide alkene(C16+)-amine (LOA)	2104	5	NI	5	NR	0	NI	0	0	(1)	1	(1)		Fp	2	
Polyolefin amide alkeneamine (C17+)	597												<b>CAS No</b>			
Polyolefin amide alkeneamine (C28+) (LOA)	1971	0	NI	0	NR	0	NI	0	0	(0)	1	(1)		NI	1	
Polyolefin amide alkeneamine (C28+)	598												<b>CAS No</b>			
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												<b>CAS No</b>			
Polyolefin amide alkeneamine/molybdenum oxysulphide mi	2256	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI		NI	NI	
Polyolefin amide alkeneamine/molybdenum oxysulphide mixture	603												<b>CAS No</b>			

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 52 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Polyolefin amide alkylene amine polyol	1989	0	2	2	NR	0	NI	0	0	(0)	0	0		Fp	3	
Polyolefin amide alkeneamine polyol	602									<b>CAS No</b>						
Poly (17+) olefin amine	2049	0	NI	0	NR	2	NI	0	(0)	(1)	(1)	(1)		Fp	2	
Poly (17+) olefin amine	571									<b>CAS No</b>	98761-78-5					
Polyolefinamine (C28-C250) (LOA)	2107	0	NI	0	NR	2	NI	0	(0)	(2)	2	(1)		Fp	2	
Polyolefinamine (C28-C250)	609									<b>CAS No</b>						
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									<b>CAS No</b>						
Polyolefinamine (C28-C250) (LOA)	2107	0	NI	0	NR	2	NI	0	(0)	(2)	2	(1)		Fp	2	
Polyolefinamine in aromatic solvent	611									<b>CAS No</b>						
Polyolefin aminoester salt	2095	0	NI	0	NR	1	NI	0	0	(1)	1	(1)		Fp	2	
Polyolefin aminoester salts (molecular weight 2000+)	604									<b>CAS No</b>						
Polyolefin ester (C28-C250) (LOA)	1969	0	NI	0	NR	0	NI	0	0	(0)	0	0		Fp	2	
Polyolefin ester (C28-C250)	606									<b>CAS No</b>						
Polyolefin (molecular weight 300+) (LOA)	1968	0	NI	0	NR	0	NI	0	0	0	0	0		Fp	2	
Polyolefin (molecular weight 300+)	596									<b>CAS No</b>						
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									<b>CAS No</b>						
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									<b>CAS No</b>						
Polyoxyethylene sorbitan monooleate	1442	3	(2)	3	R	2	0	0	(0)	(0)	0	0		D	0	
Poly(20)oxyethylene sorbitan monooleate	577									<b>CAS No</b>	9005-65-6					
Polyoxypropylene diamine	2352	1	NI	1	NR	1	NI	0	0	(3)	3	3		D	3	
	3112									<b>CAS No</b>						
Polypropylene	1512	0	NI	0	NR	(0)	NI	(0)	(0)	(0)	(0)	(0)		F	1	
Poly(5+)propylene	579									<b>CAS No</b>	9003-07-0					
Polypropylene glycol	1159	0	NI	0	(NR)	1	NI	1	0	(1)	1	1		D	1	
Polypropylene glycol	612									<b>CAS No</b>	25322-69-4					
Polysiloxane	1161	NI	4	4	NI	2	NI	0	(0)	(0)	0	0		F	1	
Polysiloxane	613									<b>CAS No</b>						

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 53 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Polysiloxane	1161	NI	4	4	NI	2	NI	0	(0)	(0)	0	0		F	1	
Dimethylpolysiloxane	275									<b>CAS No</b>						
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									<b>CAS No</b>						
Potassium carbonate solution	2465	Inorg	0	0	Inorg	2	NI	0	0	(0)	2	2		D	2	
Potassium carbonate solution	3928									<b>CAS No</b>						
Potassium chloride brine (less than 26%)	2345	0	0	0	Inorg	0	0	0	(0)	(0)	0	0		D	0	
Potassium chloride solution (less than 26%)	3109									<b>CAS No</b>						
Potassium chloride solution	1513	0	0	0	Inorg	1	0	0	(0)	(0)	0	0		D	0	
Potassium chloride solution	614									<b>CAS No</b>	7447-40-7					
Potassium formate solution (75% or more)	2121	0	NI	0	R	0	NI	(0)	(0)	(2)	2	2		D	2	
Potassium formate solutions	615									<b>CAS No</b>	590-29-4					
Potassium hydroxide (sol.)	1171	Inorg	0	0	Inorg	2	NI	2	(2)	(3)	3C	3		D	3	
Potassium hydroxide solution	616									<b>CAS No</b>	1310-58-3					
Potassium iodide	2484	Inorg	(0)	(0)	Inorg	1	0	0	0	(0)	0	0	T	D	2	
Potassium iodide	4060									<b>CAS No</b>	7681-11-0					
Potassium oleate	1497	3	NI	3	R	4	NI	(0)	(0)	(1)	1	1		FD	1	
Potassium oleate	617									<b>CAS No</b>	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									<b>CAS No</b>						
Propanol	1180	0	NI	0	R	0	NI	1	0	0	1	2	R	D	3	
n-Propyl alcohol	488									<b>CAS No</b>	71-23-8					
Propanolamine	1183	0	NI	0	R	2	NI	0	1	(3)	3	3		D	3	
n-Propanolamine	485									<b>CAS No</b>	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									<b>CAS No</b>						
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									<b>CAS No</b>						
beta-Propiolactone	1184	0	NI	0	R	(2)	NI	2	(2)	4	3B	3	CM	D	3	
beta-Propiolactone	142									<b>CAS No</b>	57-57-8					

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 54 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Propionaldehyde	1185	0	NI	0	R	2	NI	1	0	1	2	2		DE	2	
Propionaldehyde	619									<b>CAS No</b>	123-38-6					
Propionic acid	1186	0	NI	0	R	2	NI	0	0	(3)	3B	3		D	3	
Propionic acid	620									<b>CAS No</b>	79-09-4					
Propionic anhydride	1187	0	NI	0	R	2	NI	0	0	(3)	2	3		FD	3	
Propionic anhydride	621									<b>CAS No</b>	123-62-6					
Propionitrile	1188	0	NI	0	NI	0	NI	3	3	4	1	2	R	D	3	
Propionitrile	622									<b>CAS No</b>	107-12-0					
Propyl acetate	1191	1	NI	1	R	2	NI	0	0	0	1	1		ED	1	
n-Propyl acetate	487									<b>CAS No</b>	109-60-4					
Propylamine	1194	0	NI	0	NI	1	NI	2	2	3	3	3		DE	3	
n-Propylamine	490									<b>CAS No</b>	107-10-8					
Propyl benzene	1196	NI	NI	NI	NI	3	NI	NI	NI	NI	NI	NI		(T)	FE	NI
Propylbenzene	2686									<b>CAS No</b>	103-65-1					
Propyl chloride	1198	2	NI	2	NI	1	NI	0	NI	NI	NI	NI		FED	2	
n-Propyl chloride	489									<b>CAS No</b>	540-54-5					
Propylene carbonate	2056	0	NI	0	R	0	NI	0	0	(3)	2	3		D	3	
Propylene carbonate	624									<b>CAS No</b>	108-32-7					
Propylene dimer	1201	3	NI	3	R	3	NI	NI	NI	NI	NI	NI		E	2	
Propylene dimer	625									<b>CAS No</b>						
1,2-Propylene glycol	1202	0	NI	0	R	0	0	0	0	0	0	0		D	0	
Propylene glycol	626									<b>CAS No</b>	57-55-6					
Propylene glycol methyl ether acetate	1759	0	NI	0	NR	1	NI	0	0	0	0	1		D	1	
Propylene glycol methyl ether acetate	627									<b>CAS No</b>	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									<b>CAS No</b>						
Propylene glycol phenyl ether	2057	1	NI	1	NI	1	NI	0	0	(1)	(1)	(1)		SD	1	
Propylene glycol phenyl ether	629									<b>CAS No</b>	4169-04-4					
Propylene oxide	76	0	NI	0	R	2	NI	1	2	2	2	3	CM	DE	3	
Propylene oxide	630									<b>CAS No</b>	75-56-9					

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 55 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
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												<b>CAS No</b>			
Propylene tetramer	2255	NI	4	4	NR	(4)	NI	(0)	(0)	(1)	(1)	(1)		F	1	
Propylene tetramer	631												<b>CAS No</b>	6842-15-5		
Propylene trimer	1207	5	4	4	NR	3	2	(0)	(0)	(1)	(1)	(1)		FE	2	
Propylene trimer	632												<b>CAS No</b>	13987-01-4		
Pyridine	1213	0	NI	0	R	3	0	1	1	2	1	3		NT	D	3
Pyridine	634												<b>CAS No</b>	110-86-1		
Pyridine bases	2131	1	NI	1	R	2	NI	2	1	(3)	3B	3		FED	3	
Paraldehyde-ammonia reaction product	1989												<b>CAS No</b>			
Pyrolysis gasoline	2271	(4)	(3)	(3)	(R)	(3)	(1)	1	0	(2)	2	2	TCM	FE	3	
Pyrolysis gasoline (containing benzene)	1990												<b>CAS No</b>			
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												<b>CAS No</b>			
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												<b>CAS No</b>			
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												<b>CAS No</b>			
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												<b>CAS No</b>			
Rosin	1219	3	NI	3	NR	3	NI	0	0	2	(1)	1	Ss	S	2	
Rosin	635												<b>CAS No</b>	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												<b>CAS No</b>			
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												<b>CAS No</b>	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												<b>CAS No</b>			
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												<b>CAS No</b>			

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 56 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
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	NI	NI	(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	0	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		
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 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 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	1	1	0	2	2		D	2	
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	1	1	1	2	2		D	2	
Sodium hydrosulphide solution (45% or less)	652												CAS No	16721-80-5		

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 57 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
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									<b>CAS No</b>	7631-90-5					
Sodium hydroxide (30% or less)/Sodium aluminate (25% or less) solution (#)	2486	Inorg	(0)	(0)	Inorg	5	0	0	(0)	(3)	3	(3)		D	3	
	3914									<b>CAS No</b>						
Sodium hydroxide solution (#)	1254	Inorg	0	0	Inorg	2	NI	1	1	3	3C	3		D	3	
Sodium hydroxide solution	654									<b>CAS No</b>	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									<b>CAS No</b>	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									<b>CAS No</b>	7681-52-9					
Sodium methylate (**)	2443	NI	NI	(0)	(R)	(2)	NI	NI	NI	NI	NI	NI	T	DE	NI	
Sodium methylate	3822									<b>CAS No</b>						
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									<b>CAS No</b>						
Sodium nitrate	1259	Inorg	0	0	Inorg	0	NI	(0)	(0)	(0)	(1)	(1)		SD	1	
Sodium nitrate	656									<b>CAS No</b>	7631-99-4					
Sodium nitrite	340	Inorg	0	0	Inorg	3	0	2	(2)	2	0	1		SD	2	
Sodium nitrite solution	658									<b>CAS No</b>	7632-00-0					
Sodium perborate monohydrate	2284	Inorg	NI	NI	Inorg	3	NI	1	0	(3)	2	3		NI	3	
Sodium perborate monohydrate	2948									<b>CAS No</b>						
Sodium petroleum sulphonate	1860	0	NI	0	(NR)	2	NI	0	(0)	(2)	1	2		S	2	
Sodium petroleum sulphonate	660									<b>CAS No</b>						
Sodium polyacrylate solution	1487	0	NI	0	NR	1	0	0	(0)	(1)	1	1		D	1	
Sodium poly(4+)acrylate solutions	826									<b>CAS No</b>						
Sodium silicate (solution)	1262	Inorg	0	0	Inorg	2	NI	1	0	(3)	3	3		D	3	
Sodium silicate solution	661									<b>CAS No</b>	1344-09-8					
Sodium sulphate (solution)	1499	Inorg	0	0	Inorg	0	0	0	(0)	(1)	1	1		SD	1	
Sodium sulphate solutions	662									<b>CAS No</b>	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									<b>CAS No</b>	1313-82-2					

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 58 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Sodium sulphite (solution)	9	Inorg	0	0	Inorg	2	NI	0	(0)	(1)	0	1		D	1	
Sodium sulphite solution (25% or less)	664										<b>CAS No</b>	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										<b>CAS No</b>					
Sodium thiocyanate	1264	Inorg	0	0	Inorg	2	NI	1	(0)	(1)	0	0		D	1	
Sodium thiocyanate solution (56% or less)	667										<b>CAS No</b>	540-72-7				
Sorbitan monooleate	2215	(5)	NI	(5)	R	3	NI	0	NI	NI	0	0		Fp	2	
Sorbitan monooleate	2408										<b>CAS No</b>					
Sorbitol	1265	0	NI	0	R	0	NI	0	(0)	(0)	(0)	(0)		D	0	
Sorbitol solution	668										<b>CAS No</b>	50-70-4				
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										<b>CAS No</b>					
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										<b>CAS No</b>					
Styrene (monomer)	1273	3	(2)	3	R	3	NI	1	0	2	2	2	CM	FE	3	
Styrene monomer	669										<b>CAS No</b>	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										<b>CAS No</b>					
Sulpho hydrocarbon (C3-C88) (LOA)	1972	4	NI	4	NR	2	NI	0	0	0	0	0		Fp	2	
Sulphohydrocarbon (C3-C88)	672										<b>CAS No</b>					
Sulpholane	1277	0	1	1	NR	2	0	1	0	0	1	2		SD	2	
Sulpholane	673										<b>CAS No</b>	126-33-0				
Sulphonated polyacrylate solution	1760	NI	0	0	NI	0	NI	(0)	(0)	(0)	(0)	(0)		D	0	
Sulphonated polyacrylate solution	674										<b>CAS No</b>					
Sulphur	906	Inorg	0	0	Inorg	0	NI	0	0	(1)	1	1		S	1	
Sulphur (molten)	675										<b>CAS No</b>	7704-34-9				
Sulphuric acid	1280	0	NI	0	Inorg	2	NI	0	(0)	3	3C	3	C	D	3	
Sulphuric acid, spent	677										<b>CAS No</b>	7664-93-9				
Sulphuric acid	1280	0	NI	0	Inorg	2	NI	0	(0)	3	3C	3	C	D	3	
Sulphuric acid	676										<b>CAS No</b>	7664-93-9				

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 59 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Sulphuric acid	1280	0	NI	0	Inorg	2	NI	0	(0)	3	3C	3	C		D	3
Oleum	549									<b>CAS No</b>	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									<b>CAS No</b>						
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									<b>CAS No</b>						
Sunflower oil	1283	0	NI	0	R	0	NI	(0)	(0)	(1)	(0)	(1)			Fp	2
Sunflower seed oil	2782									<b>CAS No</b>	8001-21-6					
sym-Dichlorodiethyl ether	588	1	1	1	NR	1	0	2	3	4	1	3		T	SD	3
Dichloroethyl ether	233									<b>CAS No</b>	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									<b>CAS No</b>						
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									<b>CAS No</b>	68187-71-3					
Tall oil, distilled	2283	0	NI	0	R	0	NI	0	(0)	(0)	0	(0)			Fp	2
Tall oil, distilled	2890									<b>CAS No</b>						
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									<b>CAS No</b>	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									<b>CAS No</b>						
Tall oil pitch	2323	3	NI	3	NR	0	0	0	0	(0)	0	(0)			Fp	2
Tall oil pitch	3051									<b>CAS No</b>						
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									<b>CAS No</b>						
Tall oil soap, crude	2432	0	NI	0	R	2	0	(0)	(0)	(3)	(3)	(3)	Ss		Fp	3
Tall oil soap, crude	3735									<b>CAS No</b>						
Tallow	1288	0	NI	0	R	0	NI	0	0	(0)	(0)	(0)			Fp	2
Tallow	682									<b>CAS No</b>	61789-21-6					

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 60 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Tallowamidopropylamine Oxide in propylene glycol (70% or less) (#)	2482 4058	NI	(2)	(2)	(R)	(4)	(2)	(1)	(1)	(3)	(3)	(3)		D	3	
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	
Thixatrol plus	2210	5	NI	5	R	3	NI	0	0	0	1	1		S	1	
Thixatrol Plus	2699													CAS No		

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 61 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Titanium dioxide slurry	2080	Inorg	1	1	Inorg	1	NI	0	0	0	1	1		S	1	
Titanium dioxide slurry	2259												<b>CAS No</b>	13463-67-7		
Toluene	330	2	2	2	R	3	0	0	0	0	2	2	ANR	NT	E	3
Toluene	693												<b>CAS No</b>	108-88-3		
Toluene diisocyanate	1315	(3)	1	1	NR	2	NI	0	(0)	4	3	3	CSsSr	S	3	
Toluene diisocyanate	694												<b>CAS No</b>	584-84-9		
Toluidines	1316	1	1	1	R	4	2	1	0	(2)	2	2	CM		FD	3
o-Toluidine	537												<b>CAS No</b>			
2,4-Tolenediamine	1317	0	2	2	NR	3	0	2	2	4	2	3	CMSs	Fp	3	
Toluenediamine	695												<b>CAS No</b>	95-80-7		
Tolyl triazole	2292	1	NI	1	NR	2	0	1	0	(2)	(1)	2		S	2	
Tolyl triazole	696												<b>CAS No</b>			
Tributyl phosphate	1319	4	2	2	R	3	0	1	0	2	2	2		F	2	
Tributyl phosphate	697												<b>CAS No</b>	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												<b>CAS No</b>			
1,2,4-Trichlorobenzene	1323	4	5	5	NR	4	1	1	0	(2)	2	2	M	S	3	
1,2,4-Trichlorobenzene	7												<b>CAS No</b>	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												<b>CAS No</b>	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												<b>CAS No</b>	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												<b>CAS No</b>	79-01-6		
Trichloromethane	1328	1	1	1	NR	2	0	2	0	2	1	1	CT	SD	3	
Chloroform	186												<b>CAS No</b>	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												<b>CAS No</b>	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												<b>CAS No</b>	76-13-1		

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 62 of 66

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									<b>CAS No</b>	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									<b>CAS No</b>	1330-78-5					
Tridecane	1333	0	NI	0	NI	0	NI	0	0	(1)	1	0		Fp	2	
Tridecane	701									<b>CAS No</b>	629-50-5					
Tridecanoic acid	1334	5	NI	5	(R)	3	NI	(0)	(0)	(1)	(1)	(1)		Fp	2	
Tridecanoic acid	702									<b>CAS No</b>	638-53-9					
Tridecyl acetate	1768	5	NI	5	NI	0	NI	0	(0)	(2)	2	2		F	2	
Tridecyl acetate	703									<b>CAS No</b>	1072-33-9					
Triethanolamine	1338	0	0	0	R	1	NI	0	0	(2)	1	2		D	2	
Triethanolamine	704									<b>CAS No</b>	102-71-6					
3-(Triethoxsilyl)propylamine	2445	1	1	1	R	1	NI	1	0	(3)	3B	3	Ss	D	3	
	3824									<b>CAS No</b>	919-30-2					
Triethylamine	1339	1	0	0	R	3	0	1	2	2	2	3		D	3	
Triethylamine	706									<b>CAS No</b>	121-44-8					
1,3,5-Triethylbenzene	1340	5	NI	5	NI	4	NI	0	(0)	(2)	(2)	(1)		F	2	
Triethylbenzene	707									<b>CAS No</b>	25340-18-5					
Triethylene glycol	1341	0	NI	0	R	0	0	0	0	0	0	0		D	0	
Triethylene glycol	708									<b>CAS No</b>	112-27-6					
Triethylenetetramine	1346	0	NI	0	NR	3	NI	0	2	(3)	3	3	Ss	D	3	
Triethylenetetramine	709									<b>CAS No</b>	112-24-3					
Triethylenetetramine/2-piperazine-1-yethylamine mixtures (#)	2456	0	NI	0	NR	2	NI	0	2	(3)	3	3	Ss	D	3	
	3872									<b>CAS No</b>						
Triethyl phosphate	1348	0	0	0	NR	1	0	1	0	0	(2)	(2)		D	2	
Triethyl phosphate	705									<b>CAS No</b>	78-40-0					
Triethyl phosphite	1349	0	NI	0	R	1	NI	1	0	2	1	2	Ss	FE	2	
Triethyl phosphite	710									<b>CAS No</b>	122-52-1					
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)	4023									<b>CAS No</b>	68990-65-8					

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 63 of 66

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 (m)	3974									<b>CAS No</b>	68990-65-8					
Triisopropanolamine	1370	0	0	0	NR	1	0	1	0	0	(2)	3		FD	3	
Triisopropanolamine	711									<b>CAS No</b>	122-20-3					
Triisopropylated phenyl phosphates	1375	5	5	5	R	4	NI	0	0	0	0	0		S	0	
Triisopropylated phenyl phosphates	712									<b>CAS No</b>	68937-41-7					
Trimethylacetic acid	1350	1	1	1	R	2	NI	1	1	(2)	2	2		Fp	2	
Trimethylacetic acid	714									<b>CAS No</b>	75-98-9					
Trimethylamine	1353	0	NI	0	R	1	NI	1	0	2	3	3		DE	3	
Trimethylamine solution (30% or less)	715									<b>CAS No</b>	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									<b>CAS No</b>	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									<b>CAS No</b>	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									<b>CAS No</b>	28679-16-5					
Trimethylol propane polyethoxylate	1362	NI	NI	NI	NR	1	NI	0	0	NI	NI	NI		NI	NI	
Trimethylolpropane polyethoxylate	719									<b>CAS No</b>						
Trimethylol propane, propoxylated	2274	0	NI	0	(NR)	1	0	0	0	(1)	0	1		SD	1	
Trimethylol propane propoxylated	2870									<b>CAS No</b>						
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									<b>CAS No</b>						
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									<b>CAS No</b>	25264-77-4					
Trimethyl phosphite	1365	0	NI	0	R	NI	NI	NI	NI	NI	NI	NI		S	NI	
Trimethyl phosphite	713									<b>CAS No</b>	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									<b>CAS No</b>	110-88-3					
Tripropylene glycol	1372	0	0	0	R	0	0	0	0	(0)	0	0		D	0	
Tripropylene glycol	720									<b>CAS No</b>	24800-44-0					

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 64 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Trixylenyl phosphate	1377	5	4	4	NR	4	1	(0)	(1)	(0)	(1)	(1)	R	S	3	
Trixylyl phosphate	721												<b>CAS No</b>	25155-23-1		
Tung oil	1378	0	NI	0	R	(2)	NI	(0)	(0)	(1)	(0)	(1)		Fp	2	
Tung oil	2784												<b>CAS No</b>			
Turpentine (wood)	1379	4	NI	4	NI	4	NI	0	(0)	1	(2)	2	SsA	(T)	D	2
Turpentine	722												<b>CAS No</b>	8006-64-2		
Undecanoic acid	1381	4	NI	4	(R)	3	NI	(0)	(0)	(2)	1	(2)		Fp	2	
Undecanoic acid	723												<b>CAS No</b>	112-37-8		
1-Undecanol	1382	4	NI	4	R	4	NI	0	0	(2)	2	(1)		Fp	2	
Undecyl alcohol	724												<b>CAS No</b>	112-42-5		
1-Undecene	1383	5	NI	5	NR	4	NI	(0)	(0)	(1)	(2)	(1)	A	F	3	
1-Undecene	24												<b>CAS No</b>	821-95-4		
Urea	1384	0	0	0	R	1	NI	0	0	(1)	1	(1)		D	1	
Urea solution	726												<b>CAS No</b>	57-13-6		
Urea	1384	0	0	0	R	1	NI	0	0	(1)	1	(1)		D	1	
Urea	2627												<b>CAS No</b>	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												<b>CAS No</b>			
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												<b>CAS No</b>			
Urea-ammonium phosphate solutions	2179	0	0	0	R	3	2	(0)	(0)	(2)	(2)	(2)		D	2	
Urea/Ammonium phosphate solution	730												<b>CAS No</b>			
Urea-formaldehyde resin solution	1388	NI	NI	NI	NI	1	NI	1	1	NI	NI	NI	Ss	NI	2	
Urea formaldehyde resin solution	725												<b>CAS No</b>			
Vegetable acid oils	2371	0	NI	0	R	0	NI	(0)	(0)	(1)	(1)	(1)		Fp	2	
Vegetable acid oils (m)	3138												<b>CAS No</b>			
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												<b>CAS No</b>			
Vegetable protein solution,hydrolyzed	1398	0	NI	0	R	0	NI	(0)	(0)	(0)	(0)	(0)		D	0	
Vegetable protein solution (hydrolysed)	734												<b>CAS No</b>			

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

10 June 2016  
Page 65 of 66

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Vinyl acetate	1400	0	NI	0	R	2	NI	1	0	2	1	1	C	ED	3	
Vinyl acetate	735									<b>CAS No</b>	108-05-4					
Vinyl ethyl ether	1405	1	NI	1	NR	1	NI	0	0	0	1	1		E	2	
Vinyl ethyl ether	736									<b>CAS No</b>	109-92-2					
Vinylidene chloride	1406	2	1	1	NR	2	NI	2	0	(2)	2	2	M	SD	3	
Vinylidene chloride	738									<b>CAS No</b>	75-35-4					
Vinyl neodecanoate	1404	5	NI	5	NR	3	NI	0	0	(3)	3	3		F	3	
Vinyl neodecanoate	737									<b>CAS No</b>	45115-34-2					
Vinyl toluenes	1409	3	3	3	NR	3	NI	0	0	2	2	1	NM	(T)	F	3
Vinyltoluene	739									<b>CAS No</b>	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									<b>CAS No</b>						
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									<b>CAS No</b>						
Xylene (mixed isomers)	1408	3	NI	3	NR	3	0	0	0	0	2	2		(T)	FE	2
Xylenes	743									<b>CAS No</b>	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									<b>CAS No</b>						
Xylenols (mixtures)	1422	2	NI	2	R	3	NI	1	2	(3)	3	3		(T)	Fp	3
Xylenol	744									<b>CAS No</b>	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									<b>CAS No</b>	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									<b>CAS No</b>						
Zinc alkenylcarboxamide (LOA)	2053	NI	0	0	NR	0	NI	0	0	0	(1)	1	(1)		Fp	2
Zinc alkenyl carboxamide	746									<b>CAS No</b>						
Zinc alkyl dithiophosphate	1428	5	NI	5	NR	3	NI	0	0	0	2	2		S	2	
Zinc alkyl dithiophosphate (C3-C14)	747									<b>CAS No</b>						
Zinc bromide solutions	2227	Inorg	4	4	Inorg	3	NI	1	(2)	(3)	3B	3	Ss	D	3	
Zinc bromide solutions	2617									<b>CAS No</b>						

**ANNEX 5 - GESAMP/EHS COMPOSITE LIST**  
**GESAMP Hazard Profiles**

**10 June 2016**  
**Page 66 of 66**

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Zinc chloride	1425	Inorg	4	4	Inorg	4	1	(1)	(1)	(3)	(3)	(3)		D	3	
Zinc chloride	2869								<b>CAS No</b>	7646-85-7						
Zinc chloride	1425	Inorg	4	4	Inorg	4	1	(1)	(1)	(3)	(3)	(3)		D	3	
Drilling brines (containing zinc salts)	307								<b>CAS No</b>	7646-85-7						

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## ANNEX 6

### **PROVISIONAL AGENDA FOR THE FIFTY-FOURTH SESSION OF THE GESAMP/EHS WORKING GROUP**

- 1 Adoption of the agenda
  - 2 Outcome of other bodies
  - 3 Evaluation of new substances
  - 4 Correspondence with industry/government
  - 5 Classification issues
  - 6 Consolidation of existing data files
  - 7 Communication and publication
  - 8 Any other business
  - 9 Proposed provisional agenda for EHS 55
  - 10 Consideration and adoption of the report
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