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PPR.1/Circ.8
1 June 2020

HAZARD EVALUATION OF SUBSTANCES TRANSPORTED BY SHIPS

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

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

Any comments or questions should be addressed to:

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

EHS 57/9
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REPORT OF THE FIFTY-SEVENTH SESSION

1	INTRODUCTION	1
2	OUTCOME OF OTHER BODIES	2
3	EVALUATION OF NEW SUBSTANCES	2
4	RE-EVALUATION OF SUBSTANCES AND CONSIDERATION OF ISSUES RELATED TO EVALUATIONS	8
5	RATING BY READ ACROSS AND CLASSIFICATION ISSUES	8
6	CONSOLIDATION OF EXISTING DATA FILES	9
7	ANY OTHER BUSINESS	9
8	CONSIDERATION AND ADOPTION OF THE REPORT	10

LIST OF ANNEXES

- ANNEX 1 LIST OF MEMBERS ATTENDING THE FIFTY-SEVENTH SESSION OF THE GESAMP/EHS WORKING GROUP
- ANNEX 2 OUTCOME OF ESPH 25 AND THE ESPH WORKING GROUP AT PPR 7
- ANNEX 3 GESAMP HAZARD PROFILES FOR NEW SUBSTANCES SUBMITTED FOR EVALUATION TO GESAMP/EHS 57
- ANNEX 4 UPDATED GESAMP/EHS COMPOSITE LIST
- ANNEX 5 PROVISIONAL AGENDA FOR THE FIFTY-EIGHTH SESSION OF THE GESAMP/EHS WORKING GROUP

1 INTRODUCTION

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

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

2 OUTCOME OF OTHER BODIES

Outcome of IMO bodies

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

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

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

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

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

3 EVALUATION OF NEW SUBSTANCES

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

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

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

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

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

EHS 2531 Sodium dodecylpoly(oxyethylene) sulphate solution
Submitted as: Sodium dodecylpoly(oxyethylene) sulfate solution

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

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

EHS 2532 Sorbitan sesquioleate
Submitted as: Sorbitan Sesquioleate

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

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

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

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

EHS 2533 Polyethylene glycol sorbitol hexaoleate

Submitted as: PEG Sorbitol Hexaoleate

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

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

EHS 2534 Acrylamide, polymer with sodium 2-acrylamido-2-methyl-1-propanesulphonic acid (AMPS), tetraethylene glycol diacrylate, and methylene-bisacrylamide

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

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

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

EHS 2535 Acrylamide (ACAM) - Sodium 2-acrylamido-2-methyl-1-propanesulphonic acid (AMPS) Copolymer (70:30 ACAM:AMPS)

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

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

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

EHS 2536 Acrylamide (ACAM) - Sodium 2-acrylamido-2-methyl-1-propanesulphonic acid (AMPS) Copolymer (68:32 ACAM:AMPS)
Submitted as: Acrylamide - Sodium AMPS Copolymer (68:32 ACAM:AMPS)

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

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

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

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

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

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

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

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

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

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

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

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

EHS 2525 Choline hydroxide solution

Submitted as: Choline Hydroxide Solution

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

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

EHS 2526 Isoalkanes (C16-C18)

Submitted as: Isoalkanes, C16-C18

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

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

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

EHS 2521 Sodium chloride solution

Submitted as: Sodium chloride brine

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

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

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

EHS 2527 Polyalkene sulphonic acid (C16-C18), sodium salt

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

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

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

EHS 2529 Sorbitol, propoxylated

Submitted as: Sorbitol, propoxylated

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

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

EHS 2530 Tricyanohexane

Submitted as: Tricyanohexane

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

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

SCALETREAT TP 8441

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

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

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

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

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

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

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

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

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

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

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

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

Amended rating A1a=Inorg

EHS 2387 Sodium bromide solution (less than 50%)

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

Amended rating A1a=Inorg

5 RATING BY READ ACROSS AND CLASSIFICATION ISSUES

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

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

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

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

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

6 CONSOLIDATION OF EXISTING DATA FILES

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

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

7 ANY OTHER BUSINESS

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

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

Draft provisional agenda and date of the next session

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

Expression of appreciation

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

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

8 CONSIDERATION AND ADOPTION OF THE REPORT

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

ANNEX 1

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

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ANNEX 2

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

1 OUTCOME OF ESPH 25

Evaluation of chemicals

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

Complex mixtures submitted for assessment as a MARPOL Annex II product

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

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

Energy-rich fuels

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

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

2 OUTCOME OF THE ESPH WORKING GROUP AT PPR 7

Evaluation of chemicals

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

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

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

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

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

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

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

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

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

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

ANNEX 3

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

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

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

8 May 2020
Page 1 of 2

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

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

8 May 2020
Page 2 of 2

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

ANNEX 4

UPDATED GESAMP/EHS COMPOSITE LIST

Notes:

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

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 1 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Acetic acid	13	0	0	0	R	1	NI	1	1	1	3C	3			D	3
Acetic acid	64								CAS No		64-19-7					
Acetic anhydride	12	0	0	0	R	1	NI	1	0	2	3	3	A		D	3
Acetic anhydride	65								CAS No		108-24-7					
Acetochlor (ISO)	2047	3	2	2	NR	4	NI	1	0	(1)	0	0			S	2
Acetochlor	66								CAS No		34256-82-1					
Acetone	15	0	0	0	R	0	0	0	0	0	1	2		NT	DE	2
Acetone	67								CAS No		67-64-1					
Acetone cyanohydrin	14	0	0	0	R	4	NI	3	4	3	(3)	(3)			D	3
Acetone cyanohydrin	68								CAS No		75-86-5					
Acetonitrile	16	0	0	0	R	1	NI	1	1	2	1	2			D	2
Acetonitrile	69								CAS No		75-05-8					
Acetonitrile (Low purity grade)	2333	0	NI	0	R	3	NI	1	1	2	1	2			D	2
Acetonitrile (Low purity grade)	2876								CAS No							
Acid mixtures (nitrating acid)	289	Inorg	NI	0	Inorg	(2)	NI	3	3	4	3C	3			D	3
Nitrating acid (mixture of sulphuric and nitric acids)	497								CAS No							
Acrylamide	23	0	0	0	R	2	0	2	2	(2)	1	2	CMNSs		D	3
Acrylamide solution (50% or less)	70								CAS No		79-06-1					
Acrylamide (ACAM) - Sodium 2-acrylamido-2-methyl-1-propanesulphonic acid (AMPS) Copolymer (68:32 ACAM:AMPS)	2536	0	NI	0	NR	1	0	(0)	(0)	(0)	(0)	(0)			Fp	2
Acrylamide (ACAM) - Sodium 2-acrylamido-2-methyl-1-propanesulphonic acid (AMPS) Copolymer (68:32 ACAM:AMPS)	4245								CAS No							
Acrylamide (ACAM) - Sodium 2-acrylamido-2-methyl-1-propanesulphonic acid (AMPS) Copolymer (70:30 ACAM:AMPS)	2535	0	NI	0	NR	0	0	(0)	(0)	(0)	(0)	(0)			Fp	2
Acrylamide (ACAM) - Sodium 2-acrylamido-2-methyl-1-propanesulphonic acid (AMPS) Copolymer (70:30 ACAM:AMPS)	4244								CAS No							
Acrylamide, polymer with sodium 2-acrylamido-2-methyl-1-propanesulphonic acid (AMPS), tetraethylene glycol diacrylate, and methylene-bisacrylamide	2534	0	NI	0	NR	1	0	0	0	(0)	0	0			Fp	2
Acrylamide, polymer with sodium 2-acrylamido-2-methyl-1-propanesulphonic acid (AMPS), tetraethylene glycol diacrylate, and methylene-bisacrylamide	4243								CAS No							
Acrylic acid	24	0	0	0	R	4	NI	2	2	2	3C	3			D	3
Acrylic acid	71								CAS No		79-10-7					

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 2 of 69

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

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 3 of 69

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

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 4 of 69

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

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 5 of 69

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

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 6 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Alkyl naphthalenes, crude (containing naphthalene)	2426	(4)	(4)	(4)	(R)	(4)	NI	0	0	(1)	1	1	AC		F	3
Alkyl naphthalenes (containing naphthalenes), crude	3699									CAS No						
Alkyl (C7-C9) nitrates	8	4	NI	4	NR	3	NI	0	0	(3)	2	(3)			F	3
Alkyl (C7-C9) nitrates	93									CAS No						
Alkyl(C8-C40)phenol sulphide (LOA)	1985	0	NI	0	NR	0	NI	0	0	(1)	1	1			FD	1
Alkyl (C8-C40) phenol sulphide	2253									CAS No						
Alkyl(C8-C9)phenylamine, in aromatic solvent (LOA)	2096	2	NI	2	NR	3	NI	(0)	(0)	(2)	2	2			S	2
Alkyl (C8-C9) phenylamine in aromatic solvents	2200									CAS No						
Alkyl (C9-C15) phenyl propoxylate	2188	0	NI	0	NR	0	NI	0	0	(2)	2	2			FD	2
Alkyl (C9-C15) phenyl propoxylate	2430									CAS No						
Alkyl[(C8-C10)/(C12-C14)]:(<40%/>60%)polyglucoside mixture solution (max 55% active material)	2134	3	NI	3	R	3	0	0	0	(3)	2	3			D	3
Alkyl (C8-C10)/(C12-C14):(40% or less/60% or more) polyglucoside solution (55% or less)	2248									CAS No			141464-42-8			
Alkyl[(C8-C10)/(C12-C14)]:(>60%/<40%)polyglucoside mixture solution (max 55% active material)	2135	3	NI	3	R	2	0	0	0	(2)	2	2			D	2
Alkyl (C8-C10)/(C12-C14):(60% or more/40% or less) polyglucoside solution(55% or less)	2246									CAS No			141464-42-8			
Alkyl(C8-C10)polyglucoside solution (max 65% active material)	2136	1	NI	1	R	2	0	0	0	(2)	2	2			D	2
Alkyl (C8-C10) polyglucoside solution (65% or less)	2245									CAS No			68515-73-1			
Alkyl (C8-C10)/(C12-C14):(50%/50%) polyglucoside solution (55% or less)	2133	3	NI	3	R	2	0	0	0	(3)	2	(3)			D	3
Alkyl (C8-C10)/(C12-C14):(50%/50%) polyglucoside solution (55% or less)	2247									CAS No						
Alkyl(C12-C14)polyglucoside solution (max 55% active material)	2137	3	NI	3	R	3	0	0	0	(3)	2	3			D	3
Alkyl (C12-C14) polyglucoside solution (55% or less)	2249									CAS No			110615-47-9			
Alkyl (C10-C15, C12 rich) phenol poly(4-12)ethoxylate (#)	2480	(5)	(4)	(4)	(NR)	(2)	NI	(0)	(0)	(2)	(2)	(1)			SD	2
Alkyl (C10-C15, C12 rich) phenol poly(4-12)ethoxylate	3953									CAS No						
Alkylsulphonic acid ester of phenol (MESAMOLL)	1878	5	NI	5	NR	0	NI	0	(0)	(0)	0	0			S	0
Alkyl sulphonic acid ester of phenol	1701									CAS No			91082-17-6			
Alkyltoluenes	2374	0	2	2	NR	0	NI	0	(0)	(1)	0	1			Fp	2
Alkyl (C18+) toluenes	3148									CAS No						
Alkyl(C18-C28)toluenesulphonic acid (>90% in mineral oil)	2429	0	4	4	NR	3	NI	0	0	(3)	2	3	Ss		Fp	3
Alkyl(C18-C28)toluenesulphonic acid	3658									CAS No						
Alkyl(C18-C28)toluenesulphonic acid, calcium salts, borated (up to 70% in mineral oil)	2404	0	4	4	NR	0	NI	(0)	(0)	(1)	(1)	(1)	Ss		S	2
Alkyl(C18-C28)toluenesulphonic acid, calcium salts, borated	3661									CAS No						

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 7 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Alkyl(C18-C28)toluenesulphonic acid, calcium salts, high overbase (up to 70% in mineral oil)	2373	(0)	(4)	(4)	(NR)	(0)	NI	0	0	(0)	0	0	Ss		S	2
Alkyl (C18-C28) toluenesulphonic acid, calcium salts, high overbase	3149									CAS No						
Alkyl(C18-C28)toluenesulphonic acid, calcium salts, low overbase (up to 60% in mineral oil)	2409	0	4	4	NR	0	NI	0	0	(2)	2	0	Ss		Fp	3
Alkyl (C18-C28) toluenesulphonic acid, calcium salts, low overbase	3685									CAS No						
Allyl alcohol	28	0	0	0	R	4	NI	2	3	3	2	3	A		D	3
Allyl alcohol	105									CAS No	107-18-6					
Aluminium chloride/hydrogen chloride solution	336	Inorg	NI	2	Inorg	3	1	1	(0)	3	(3C)	3			D	3
Aluminium chloride (30% or less)/Hydrochloric acid (20% or less) solution	110									CAS No						
Aluminium hydroxide, sodium hydroxide, sodium carbonate solution (40% or less)	2438	Inorg	0	0	Inorg	3	NI	0	0	(3)	3B	(3)			D	3
Aluminium hydroxide, sodium hydroxide, sodium carbonate solution (40% or less)	3807									CAS No						
Aluminium sulphate solution	2205	Inorg	Inorg	2	Inorg	3	1	1	(0)	(3)	(2)	(3)			D	3
Aluminium sulphate solution	111									CAS No						
Amides, coco, N-[3-(dibutylamino) propyl], acrylates	2513	(4)	NI	(4)	NR	4	NI	0	0	(2)	2	2			Fp	2
	4162									CAS No	851545-09-0					
2-(2-Aminoethoxy) ethanol	75	0	0	0	NR	1	0	0	1	(3)	3	3			D	3
2-(2-Aminoethoxy) ethanol	37									CAS No	929-06-6					
Aminoethylethanolamine	68	0	0	0	NR	1	0	0	0	(3)	3B	2	SsSr		D	3
Aminoethyl ethanolamine	112									CAS No	111-41-1					
Aminoethylethanolamine/Aminoethyldiethanolamine solution	74	Inorg	0	0	NR	1	0	(0)	(0)	(3)	(3B)	(2)	SsSr		D	3
Aminoethyldiethanolamine/Aminoethylethanolamine solution	113									CAS No						
N-Aminoethylpiperazine	88	0	0	0	NR	1	NI	0	2	(3)	3	3	Ss		D	3
N-Aminoethylpiperazine	472									CAS No	140-31-8					
2-Amino-2-(hydroxymethyl)-1,3-propanediol solution(40% or less)	89	0	NI	0	NI	1	NI	0	0	NI	NI	NI			D	NI
2-Amino-2-hydroxymethyl-1,3-propanediol solution (40% or less)	38									CAS No	77-86-1					
2-Amino-2-methyl-1-propanol	90	0	0	0	NR	1	NI	0	0	(3)	3	3			DE	3
2-Amino-2-methyl-1-propanol	39									CAS No	124-68-5					
Ammonia (anhydrous and aqueous, 28% or less)	91	0	0	0	R	3	2	1	(2)	3	3	3			DE	3
Ammonia aqueous (28% or less)	114									CAS No	7664-41-7					
Ammonium bisulphite solution, greater than 15%	1730	NI	NI	NI	NI	1	NI	NI	NI	NI	2	2			D	2
Ammonium bisulphite solution (70% or less)	115									CAS No	10192-30-0					

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 8 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Ammonium chloride solution (less than 25%)	2388	0	NI	0	Inorg	1	0	0	(0)	(2)	2	2			D	2
Ammonium chloride solution (less than 25%) (*)	3411								CAS No		12125-02-9					
Ammonium lignosulphonate (46% solution in water)	2086	0	NI	0	NR	0	NI	0	(0)	(0)	0	0			D	0
Ammonium lignosulphonate solutions	118								CAS No		8061-53-0					
Ammonium nitrate solutions	1912	Inorg	0	0	Inorg	1	NI	0	0	(2)	1	2			D	2
Ammonium nitrate solution (93% or less)	119								CAS No							
Ammonium polyphosphate solution	1764	Inorg	0	0	Inorg	1	NI	0	0	0	1	0			D	1
Ammonium polyphosphate solution	120								CAS No		10-34-0					
Ammonium sulphate	99	0	0	0	Inorg	1	(0)	0	(0)	(0)	0	0			D	0
Ammonium sulphate solution	121								CAS No		7783-20-2					
Ammonium sulphide soln.(45% or less)	310	Inorg	0	0	Inorg	3	NI	1	0	(2)	2	2	N		D	2
Ammonium sulphide solution (45% or less)	122								CAS No		12124-99-1					
Ammonium thiocyanate/ Ammonium thiosulphate solution	1732	Inorg	0	0	Inorg	1	NI	1	NI	NI	NI	NI			D	NI
Ammonium thiocyanate (25% or less)/Ammonium thiosulphate (20% or less) solution	123								CAS No							
Ammonium thiosulphate solution (60% or less)	312	Inorg	0	0	Inorg	1	NI	0	(0)	(1)	(1)	(1)			D	1
Ammonium thiosulphate solution (60% or less)	124								CAS No		7783-18-8					
Amyl acetate	255	2	2	2	NR	2	NI	0	(0)	0	1	1		NT	FED	2
Amyl acetate (all isomers)	125								CAS No		628-63-7					
tert-Amyl ethyl ether	2428	3	NI	3	NR	1	NI	0	(0)	0	2	2			E	2
tert-Amyl ethyl ether	3623								CAS No							
tert-Amyl methyl ether	2141	1	NI	1	NI	4	NI	1	0	2	0	1			ED	2
tert-Amyl methyl ether	2210								CAS No							
Amyl propionate	1484	2	NI	2	R	2	NI	0	0	(2)	2	1			F	2
n-Pentyl propionate	484								CAS No		624-54-4					
Aniline	261	0	0	0	R	3	2	2	2	3	1	3	CTSs	NT	FD	3
Aniline	127								CAS No		62-53-3					
Apple juice	275	0	NI	0	R	0	0	0	0	0	0	0			D	0
Apple juice	130								CAS No							
Aryl polyolefin (C11-C50) (LOA)	1979	NI	NI	0	NR	0	NI	0	0	0	0	0			Fp	2
Aryl polyolefins (C11-C50)	131								CAS No							

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 9 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3		
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								CAS No									
Aviation alkylates (C8 paraffins and iso-paraffins BPT 95-120 Celcius)	286	(5)	NI	(5)	(R)	(4)	NI	0	0	(0)	(0)	(0)			FE	2		
Aviation alkylates (C8 paraffins and iso-paraffins BPT 95 - 120°C)	132								CAS No									
Aziridine polymer with methyloxirane (78% in diethylene glycol monoethyl ether)	2436	0	NI	0	NR	2	0	0	0	0	1	0			Fp	2		
Aziridine polymer with methyloxirane (78% in diethylene glycol monoethyl ether)	3751								CAS No									
Barium long chain alkaryl sulphonate (C11-C50) (LOA)	1978	4	NI	4	NR	3	NI	2	0	(2)	0	0			S	2		
Barium long chain (C11-C50) alkaryl sulphonate	2370								CAS No									
Benzaldehyde	2498	1	NI	1	R	3	NI	1	(1)	2	2	2			FD	2		
Benzaldehyde	4132								CAS No								100-52-7	
Benzene	324	2	1	1	R	2	NI	1	0	0	2	2	CTM	NT	E	3		
Benzene and mixtures having 10% benzene or more (i)	133								CAS No								71-43-2	
Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl), 4-hydroxy-C7-C9 alcohols branched and linear	2378	0	3	3	NR	3	0	0	0	(0)	0	0			Fp	2		
Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl), 4-hydroxy-C7-C9 alcohols branched and linear	3405								CAS No									
Benzene sulphonyl chloride	320	1	1	1	R	3	NI	1	(2)	(3)	3	3	Ss		SD	3		
Benzene sulphonyl chloride	134								CAS No								98-09-9	
1,2,4-Benzene tricarboxylic acid, trioctyl ester	1733	0	0	0	NR	0	NI	0	(0)	2	1	1			Fp	2		
Benzenetricarboxylic acid, trioctyl ester	136								CAS No									
Benzyl acetate	348	1	NI	1	R	3	1	1	0	2	1	1			SD	2		
Benzyl acetate	138								CAS No								140-11-4	
Benzyl alcohol	349	1	NI	1	R	2	NI	1	1	2	2	2			SD	2		
Benzyl alcohol	139								CAS No								100-51-6	
Benzyl chloride	352	NI	1	1	R	3	1	1	(2)	3	3	3	CSsA		S	3		
Benzyl chloride	140								CAS No								100-44-7	
Bis(2-ethylhexyl) terephthalate	2437	0	3	3	R	0	0	0	0	(1)	1	1			Fp	2		
Bis(2-ethylhexyl) terephthalate	3752								CAS No									
N,N-Bis(2-hydroxyethyl)oleamide (LOA)	2110	5	NI	5	NR	NI	NI	0	0	(2)	2	2			Fp	2		
N,N-bis(2-hydroxyethyl) oleamide	2201								CAS No									
Bismuth oxide	2483	Inorg	(0)	(0)	Inorg	(0)	(0)	0	(0)	0	0	0			S	0		
Bismuth oxide	4059								CAS No								1304-76-3	

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 10 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Bis[3-(triethoxysilyl)propyl]amine	2444 3823	1	NI	1	R	1	NI	0	0	(2)	2	2			D	2
									CAS No		13497-18-2					
Borax, anhydrous or hydrated, crude or refined	359	Inorg	0	0	Inorg	1	0	0	0	(1)	1	1	R		S	3
Borax	143									CAS No	1303-96-4					
Boric acid	360	Inorg	0	0	Inorg	1	0	0	(0)	(1)	1	1	R		S	3
Boric acid	2254									CAS No	10043-35-3					
Bromochloromethane	2084	1	1	1	NR	1	NI	0	0	0	1	0			SD	1
Bromochloromethane	145									CAS No	74-97-5					
1-Bromopropane	2229	2	NI	2	NI	NI	NI	0	(0)	0	(2)	(2)			SD	2
1-Bromopropane	2696									CAS No						
Butanol	381	0	(0)	0	R	0	NI	0	0	0	2	3		NT	D	3
Butyl alcohol (all isomers)	2216									CAS No	71-36-3					
Butanol	381	0	(0)	0	R	0	NI	0	0	0	2	3		NT	D	3
n-Butyl alcohol	474									CAS No	71-36-3					
sec-Butanol	383	0	(0)	0	R	0	NI	0	0	0	0	2		NT	D	2
sec-Butyl alcohol	638									CAS No	78-92-2					
tert-Butanol	384	0	0	0	NR	1	NI	0	0	0	1	3		NT	D	3
tert-Butyl alcohol	686									CAS No	75-65-0					
2-Butanone	385	0	NI	0	R	1	0	0	0	1	2	2			DE	2
Methyl ethyl ketone	446									CAS No	78-93-3					
Butene oligomer	386	0	NI	0	NR	(4)	0	0	0	0	0	1			FE	2
Butene oligomer	146									CAS No						
2-Butoxyethanol/hyperbranched polyesteramide mixture	2446	NI	NI	(0)	NR	(2)	NI	1	2	2	1	2			D	2
2-Butoxyethanol (58%)/Hyperbranched polyesteramide (42%) (mixture)	3901									CAS No						
Butyl acetate	387	1	NI	1	R	2	NI	0	0	0	0	1			FED	2
Butyl acetate (all isomers)	147									CAS No	123-86-4					
Butyl acrylate	390	2	NI	2	R	3	NI	1	1	1	2	2	SsA		FED	2
Butyl acrylate (all isomers)	148									CAS No	141-32-2					
Butylamine	392	0	NI	0	R	2	NI	2	2	3	3C	3			DE	3
Butylamine (all isomers)	154									CAS No	109-73-9					

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 11 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Butyl benzene	1774	4	NI	4	NI	4	1	0	0	(2)	2	1			Fp	2
Butylbenzene (all isomers)	155									CAS No	104-51-8					
Butyl benzyl phthalate	398	4	4	4	R	4	2	0	0	(0)	(0)	(0)	R		S	3
Butyl benzyl phthalate	149									CAS No	85-68-7					
Butyl butyrate	399	2	NI	2	(R)	2	NI	0	0	(1)	1	NI			FE	2
Butyl butyrate (all isomers)	150									CAS No	109-21-7					
Butyl/Decyl/Cetyl/Eicosyl methacrylate mixture	2295	(5)	NI	(5)	(R)	(3)	NI	0	0	0	2	2	Ss		FE	2
Butyl/Decyl/Cetyl/Eicosyl methacrylate mixture	153									CAS No						
Butylene glycol(s)	402	0	NI	0	R	1	NI	1	0	0	0	0			D	1
Butylene glycol	156									CAS No	110-63-4					
Butylene glycol methyl ether acetate	953	1	1	1	R	3	NI	0	(0)	(1)	1	1			FED	1
3-Methoxybutyl acetate	58									CAS No	4435-53-4					
Butylene glycol monomethyl ether	952	0	NI	0	R	1	NI	0	0	(1)	0	1			D	1
3-Methoxy-1-butanol	57									CAS No	2517-43-3					
1,2-Butylene oxide	403	0	NI	0	NR	2	NI	1	1	2	2	2	C		DE	3
1,2-Butylene oxide	8									CAS No	106-88-7					
Butyl methacrylate	409	2	NI	2	NR	1	NI	0	0	0	2	2	Ss		FE	2
Butyl methacrylate	151									CAS No	97-88-1					
Butyl octyl phthalate	410	5	NI	5	(R)	0	2	0	(0)	(1)	(1)	(1)			Fp	2
Butyl octyl phthalate	2749									CAS No	84-78-6					
Butyl phosphate/dibutyl phosphate mixture	2434	2	NI	2	R	1	0	0	(0)	(3)	2	3			D	3
Butyl phosphate/dibutyl phosphate mixture	3749									CAS No						
Butyl propionate	1483	2	NI	2	R	2	NI	0	0	0	1	1			FED	2
n-Butyl propionate	476									CAS No	590-01-2					
1-Butylpyrrolidin-2-one	2490	1	(1)	1	R	1	0	1	0	0	1	2			D	2
1-Butylpyrrolidin-2-one	4124									CAS No	3470-98-2					
Butyl stearate	413	0	NI	0	(R)	0	NI	0	NI	NI	2	NI			Fp	2
Butyl stearate	152									CAS No	123-95-5					
Butyraldehyde	416	1	NI	1	R	2	0	0	1	0	3	3			DE	3
Butyraldehyde (all isomers)	157									CAS No	123-72-8					

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 12 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
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 phosphorusulphide mixture (LOA)	1435	NI	NI	NI	NR	4	NI	0	0	(0)	NI	NI			NI	NI
Calcium alkyl (C9) phenol sulphide/Polyolefin phosphorusulphide mixture	160								CAS No							
Calcium alkyl salicylate	2015	3	NI	3	NR	2	NI	0	0	(2)	2	2			Fp	2
Calcium alkyl (C10-C28) salicylate	3152								CAS No							
Calcium bromide (solutions)	427	Inorg	NI	0	Inorg	0	0	(0)	(0)	(2)	(1)	(2)			D	2
Drilling brines (containing calcium bromide)	308								CAS No		7789-41-5					
Calcium carbonate slurry	2016	Inorg	0	0	Inorg	0	NI	0	(0)	(0)	0	0			S	0
Calcium carbonate slurry	161								CAS No		471-34-1					
Calcium chloride solution (less than 35%)	2519	Inorg	0	0	Inorg	0	0	1	0	(3)	1	3			D	0
Calcium chloride solution (less than 35%)	4227								CAS No							
Calcium hydroxide	431	Inorg	0	0	Inorg	2	NI	0	(0)	(2)	1	2			S	2
Calcium hydroxide slurry	162								CAS No		1305-62-0					
Calcium hypochlorite solutions containing 15% Ca(OCl)2 or more	432	Inorg	0	0	Inorg	5	NI	1	0	2	3A	3			D	3
Calcium hypochlorite solution (more than 15%)	164								CAS No		7778-54-3					
Calcium hypochlorite solutions containing less than 15% but more than 1.5% Ca(OCl)2	2073	Inorg	0	0	Inorg	(4)	NI	1	0	2	3A	3			D	3
Calcium hypochlorite solution (15% or less)	163								CAS No		7778-54-3					
Calcium lignosulphonate (52% solution in water)	2087	0	NI	0	NR	0	NI	0	(0)	(0)	0	0			D	0
Calcium lignosulphonate solutions	165								CAS No		8061-52-7					
Calcium long chain alkaryl sulphonate (C11-C50) (LOA)	1973	NI	0	0	NR	0	NI	0	0	(1)	1	1			FD	1
Calcium alkaryl sulphonate (C11-C50)	169								CAS No							
Calcium long chain alkyl (C5-C10) phenate (LOA)	2106	0	NI	0	NR	2	NI	0	0	(0)	0	0			FD	1
Calcium long-chain alkyl (C5-C10) phenate	168								CAS No							
Calcium long chain alkyl (C11-C40) phenate (LOA)	2097	0	NI	0	NR	0	NI	0	0	(1)	1	1			Fp	2
Calcium long-chain alkyl (C11-C40) phenate	167								CAS No							

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 13 of 69

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

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 14 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Chlorinated paraffins (C10-C13) with 60% chlorine or more	2021	5	5	5	NR	5	2	0	0	(1)	1	1	C		S	3
Chlorinated paraffins (C10-C13)	181									CAS No						
Chlorinated paraffins (C10- C13) with less than 60% chlorine	2020	5	5	5	NR	5	3	(0)	(0)	(1)	(1)	(1)	C		S	3
Chlorinated paraffins (C10-C13) (60% chlorine or less)	2832									CAS No						
Chlorinated paraffins (C14-C17) with less than 1% shorter chain length	2112	5	4	4	NR	6	3	0	0	(2)	2	2	C		S	3
Chlorinated paraffins (C14-C17) (with 50% chlorine or more, and less than 1% C13 or shorter chains)	182									CAS No						
Chloroacetic acid	450	0	NI	0	R	2	0	2	3	(4)	3C	3	A		D	3
Chloroacetic acid (80% or less)	184									CAS No	79-11-8					
Chlorobenzene	456	2	2	2	NR	3	0	1	0	2	2	0			S	2
Chlorobenzene	185									CAS No	108-90-7					
Chlorohydrins	463	0	NI	0	R	0	NI	(2)	(2)	(3)	(3A)	3	C		D	3
Chlorohydrins (crude)	187									CAS No	96-24-2					
N-(3-Chloro-2-hydroxypropyl) trimethylammonium chloride solution (75% or less)	2286	0	0	0	NR	1	NI	0	0	(2)	0	(2)	C		D	3
N-(3-Chloro-2-hydroxypropyl)trimethyl ammonium chloride solution (75% or less)	2579									CAS No						
4-Chloro-2-methylphenoxyacetic acid, dimethylamine salt solution	1536	2	NI	2	NI	2	NI	1	0	2	1	1			S	2
4-Chloro-2-methylphenoxyacetic acid, dimethylamine salt solution	62									CAS No						
Chloronitrobenzenes	467	2	2	2	NR	3	NI	2	2	2	1	1			S	2
o-Chloronitrobenzene	533									CAS No	25167-93-5					
1-(4-Chlorophenyl)-4,4-dimethyl-3-pentanone	1772	3	3	3	NR	3	NI	0	0	(1)	1	0			S	1
1-(4-Chlorophenyl)-4,4- dimethyl-pentan-3-one	21									CAS No						
2-Chloropropionic acid	474	0	NI	0	R	1	NI	1	(3)	2	3A	3			D	3
2- or 3-Chloropropionic acid	36									CAS No	598-78-7					
3-Chloropropylene	478	1	1	1	R	3	NI	1	0	2	1	3	T		E	3
Allyl chloride	106									CAS No	107-05-1					
Chlorosulphonic acid	479	Inorg	0	0	Inorg	2	NI	(2)	(3)	4	3C	3			D	3
Chlorosulphonic acid	188									CAS No	7790-94-5					
m-Chlorotoluene	481	3	NI	3	NR	2	NI	2	0	(2)	1	1			S	2
m-Chlorotoluene	426									CAS No	108-41-8					
o-Chlorotoluene	480	3	3	3	NR	3	1	0	0	0	1	1			S	1
o-Chlorotoluene	534									CAS No	95-49-8					

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 15 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
o-Chlorotoluene	480	3	3	3	NR	3	1	0	0	0	1	1			S	1
Chlorotoluenes (mixed isomers)	189								CAS No		95-49-8					
p-Chlorotoluene	482	3	3	3	NR	3	0	0	0	0	1	1			S	2
p-Chlorotoluene	551								CAS No		106-43-4					
Choline chloride, solutions	485	0	NI	0	R	1	NI	0	(0)	(0)	0	0			D	0
Choline chloride solutions	190								CAS No		67-48-1					
Choline hydroxide solution	2525	0	(0)	0	R	1	0	(0)	NI	(3)	3	3			D	3
Choline hydroxide solution	4234								CAS No							
Cinnamaldehyde	2485	1	(2)	(2)	R	2	0	1	1	(2)	2	1	Ss		SD	2
Cinnamaldehyde	4061								CAS No		104-55-2					
Citric acid	493	0	NI	0	R	1	0	0	(0)	(3)	1	3			D	3
Citric acid (70% or less)	748								CAS No		77-92-9					
Citric juices	494	0	0	0	Inorg	0	0	0	0	0	0	0			D	0
Water	740								CAS No							
Clay	495	Inorg	0	0	Inorg	0	0	0	0	0	0	0			S	0
Clay slurry	191								CAS No							
Coal slurry	498	Inorg	0	0	Inorg	0	0	0	0	0	0	0			S	0
Coal slurry	192								CAS No							
Coal tar	499	(4)	4	4	NR	3	1	0	0	0	2	2	CMR	(T)	S	3
Coal tar	193								CAS No		8007-45-2					
Coal tar naphtha	500	3	NI	3	NR	3	NI	0	0	(1)	1	1	C	(T)	FE	3
Coal tar naphtha solvent	194								CAS No		8030-30-6					
Coal tar pitch (molten)	491	3	(3)	(3)	NR	(4)	(2)	0	0	(1)	1	0	CM		S	3
Coal tar pitch (molten)	195								CAS No		65996-93-2					
Cobalt naphthenate in solvent naphtha	501	NI	NI	NI	NR	3	NI	0	(0)	(1)	NI	1	C		FE	3
Cobalt naphthenate in solvent naphtha	196								CAS No							
Cocoa butter	2342	0	NI	0	R	0	NI	(0)	(0)	(1)	(0)	(1)			Fp	2
Cocoa butter	3096								CAS No							
Coconut acid oil	2370	0	0	0	R	3	NI	(0)	(0)	(1)	(1)	(1)			Fp	2
Coconut acid oil	3139								CAS No							

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 16 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3		
Coconut fatty acid distillate	2366	0	NI	0	R	(3)	NI	0	(0)	(1)	(1)	(1)			Fp	2		
Coconut fatty acid distillate	3130								CAS No									
Coconut oil	503	0	NI	0	R	1	NI	0	(0)	(1)	0	(1)			Fp	2		
Coconut oil	2772								CAS No								8001-31-8	
Coconut oil fatty acid	505	0	0	0	(R)	(3)	NI	0	(0)	(1)	(1)	(1)			Fp	2		
Coconut oil fatty acid	197								CAS No								61788-47-4	
Coconut oil fatty acid methyl ester	506	5	0	0	R	0	NI	(0)	(0)	(0)	(0)	(1)			Fp	2		
Coconut oil fatty acid methyl ester	198								CAS No								61788-59-8	
Concentrated filtrate of the neutralized reaction product of 5-[2-(methylthio)alkyl]imidazolidine-2,4-dione and potassium carbonate	2524	0	NI	0	R	1	0	0	NI	0	0	0			D	0		
Concentrated filtrate of the neutralized reaction product of 5-[2-(methylthio)alkyl]imidazolidine-2,4-dione and potassium carbonate	4233								CAS No									
Copper salt of long chain(>C17) alkanolic acid (LOA)	2111	0	NI	0	(R)	2	NI	0	0	(0)	0	0			Fp	2		
Copper salt of long chain (C17+) alkanolic acid	2214								CAS No									
Corn oil	521	0	NI	0	R	(2)	NI	0	(0)	(1)	1	1			Fp	2		
Corn Oil	2781								CAS No								8001-30-7	
Cotton seed oil	523	0	NI	0	R	(2)	NI	(0)	(0)	(1)	0	1			Fp	2		
Cotton seed oil	2783								CAS No								8001-29-4	
Creosote (coal tar)	524	(4)	(4)	(4)	NR	4	(2)	1	0	2	2	1	CMRSs	(T)	S	3		
Creosote (coal tar)	199								CAS No								8001-58-9	
Creosote (wood tar)	525	NI	NI	NI	NR	5	NI	1	0	2	2	1	CM	(T)	SD	3		
Creosote (wood)	200								CAS No								8021-39-4	
Creosote (coal tar) C8-C22, MW 116-278	2514	NI	(3)	(3)	(NR)	4	1	1	0	(2)	2	1	CMRSs		S	3		
Creosote (coal tar) (C8-C22, MW 116-278)	4163								CAS No									
Cresol/Phenol/Xylenol mixture	2471	(2)	(2)	(2)	R	(3)	(1)	1	2	3	3B	3			SD	3		
Cresol/Phenol/Xylenol mixture	4021								CAS No									
Cresols (mixed isomers)	527	2	2	2	R	3	(1)	2	2	4	3A	3		T	SD	3		
Cresols (all isomers)	201								CAS No								1319-77-3	
Cresylic acids, dephenolized	1875	2	2	2	R	3	0	(2)	(2)	(3)	(3A)	(3)		(T)	S	3		
Cresylic acid, dephenolized	202								CAS No									

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 17 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3		
Cresylic acid, sodium salt solution	1914	(2)	(2)	(2)	(R)	(3)	(0)	1	(1)	(3)	3	3	TCM	(T)	D	3		
Cresylic acid, sodium salt solution	203								CAS No									
Crotonaldehyde	528	0	NI	0	NR	4	1	2	4	4	2	3			D	3		
Crotonaldehyde	204								CAS No								4170-30-3	
Crude Piperazine	2331	0	NI	0	R	2	NI	(1)	(2)	(3)	3	3	SsSr		D	3		
Crude Piperazine	2810								CAS No									
Crude Tall Oil	2357	4	NI	4	R	2	0	0	0	(0)	0	0	Ss		Fp	3		
Tall oil, crude	3118								CAS No									
1,5,9-Cyclododecatriene	534	5	5	5	NR	4	NI	0	0	1	2	1	A		F	3		
1,5,9-Cyclododecatriene	17								CAS No								4904-61-4	
Cycloheptane	535	4	NI	4	(NR)	4	NI	(0)	0	(1)	(0)	(1)			FE	2		
Cycloheptane	205								CAS No								291-64-5	
Cyclohexane	536	3	3	3	NR	3	NI	0	0	1	0	1			E	2		
Cyclohexane	206								CAS No								110-82-7	
Cyclohexane-1,2-dicarboxylic acid, diisononyl ester	2472	0	3	3	R	0	0	0	0	(1)	1	0			Fp	2		
Cyclohexane-1,2-dicarboxylic acid, diisononyl ester	3915								CAS No								166412-78-8	
Cyclohexane oxidation products, sodium salts solution	2458	0	NI	0	Inorg	1	0	0	(0)	(0)	0	0			D	0		
Cyclohexane oxidation products, sodium salts solution	3739								CAS No									
Cyclohexanol	537	1	NI	1	R	2	NI	0	0	0	2	2			Fp	2		
Cyclohexanol	207								CAS No								108-93-0	
Cyclohexanone	539	0	1	1	R	1	0	1	1	1	2	2			FED	2		
Cyclohexanone	208								CAS No								108-94-1	
Cyclohexanone/Cyclohexanol mixture	1436	1	1	1	R	2	NI	1	1	1	2	2			FED	2		
Cyclohexanone, Cyclohexanol mixture	209								CAS No									
Cyclohexyl acetate	541	2	NI	2	(R)	(2)	NI	0	0	(2)	2	1			FED	2		
Cyclohexyl acetate	210								CAS No								622-45-7	
Cyclohexylamine	542	1	NI	1	R	2	NI	2	2	3	3	3			D	3		
Cyclohexylamine	211								CAS No								108-91-8	
1,3-Cyclopentadiene dimer (molten)	545	3	3	3	NR	3	NI	2	0	2	2	2			Fp	2		
1,3-Cyclopentadiene dimer (molten)	11								CAS No								77-73-6	

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 18 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Cyclopentane	546	3	NI	3	NR	3	NI	(0)	(0)	0	1	(1)			E	2
Cyclopentane	212								CAS No		287-92-3					
Cyclopentene	547	2	NI	2	(R)	3	NI	1	1	0	(2)	(0)	A		E	2
Cyclopentene	213								CAS No		142-29-0					
Decahydronaphthalene	551	4	4	4	NR	3	NI	0	0	2	2	1			F	1
Decahydronaphthalene	214								CAS No		91-17-8					
Decane	554	5	NI	5	R	0	0	0	0	0	1	0			F	1
Decane	2620								CAS No		124-18-5					
Decanoic acid	555	4	NI	4	R	4	1	0	0	(2)	2	2			Fp	2
Decanoic acid	215								CAS No		334-48-5					
1-Decene	558	5	NI	5	R	4	2	0	0	0	2	0	A		F	3
Decene	216								CAS No		872-05-9					
Decyl acetate	1767	4	NI	4	NI	NI	NI	0	0	(1)	(1)	(1)			F	1
Decyl acetate	217								CAS No		112-17-4					
Decyl acrylate	559	5	NI	5	(R)	5	NI	0	0	(2)	2	1			Fp	2
Decyl acrylate	218								CAS No		2156-96-9					
Decyloxytetrahydrothiophene dioxide	1859	3	NI	3	NR	4	NI	0	0	(1)	1	0			Fp	2
Decyloxytetrahydrothiophene dioxide	220								CAS No							
Dextrose solution	562	0	0	0	R	0	NI	0	0	0	0	(0)			D	0
Dextrose solution	221								CAS No		50-99-7					
Dextrose solution	562	0	0	0	R	0	NI	0	0	0	0	(0)			D	0
Glucose solution	361								CAS No		50-99-7					
Diacetone alcohol	563	0	NI	0	R	1	0	0	0	(2)	2	2			D	2
Diacetone alcohol	226								CAS No		123-42-2					
Dialkyldiphenylamines (LOA)	1852	5	NI	5	NR	1	0	0	0	(0)	0	0			FD	0
Dialkyl (C8-C9) diphenylamines	2255								CAS No							
Dialkyl (C9 - C10) phthalates	2359	(0)	(0)	(0)	(R)	(0)	(0)	(0)	(0)	(1)	(1)	(1)			Fp	2
Dialkyl (C9 - C10) phthalates	3121								CAS No							
Dialkyl phthalates C9-C13	566	(0)	(4)	(4)	(NR)	(0)	(2)	(0)	(0)	(1)	(1)	(1)	R		Fp	3
Dialkyl (C7-C13) phthalates	227								CAS No							

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 19 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
2,6-Diaminohexanoic acid phosphonate mixed salts solution (#)	2469	1	NI	1	NR	1	(0)	(1)	(1)	(3)	(3)	(3)			D	3
2,6-Diaminohexanoic acid phosphonate mixed salts solution	3989								CAS No							
Diammonium hydrogen phosphate	98	0	0	0	Inorg	1	NI	0	0	(0)	(1)	(1)			D	1
Ammonium hydrogen phosphate solution	117								CAS No			7783-28-0				
Dibromomethane	574	1	NI	1	NR	(2)	NI	1	0	0	(2)	(2)			SD	2
Dibromomethane	228								CAS No			74-95-3				
Di-n-butylamine	577	2	NI	2	R	3	NI	2	2	3	3	3			FD	3
Dibutylamine	231								CAS No			111-92-2				
Di-butyl ether	578	3	3	3	NR	2	NI	0	0	0	1	1			FE	2
n-Butyl ether	475								CAS No			142-96-1				
Dibutyl hydrogen phosphonate	1857	1	NI	1	NI	2	NI	0	0	(3)	3	3			F	3
Dibutyl hydrogen phosphonate	229								CAS No			1809-19-4				
2,4-Di-tert-butyl phenol	2083	5	4	4	NR	4	NI	NI	NI	NI	NI	NI			NI	NI
2,4-Di-tert-butylphenol	2339								CAS No			96-76-4				
2,6-Di-tert-butyl phenol	2082	4	NI	4	NR	4	NI	0	0	(1)	1	1			Fp	2
2,6-Di-tert-butylphenol	2250								CAS No			128-39-2				
Di-n-butyl phthalate	582	4	4	4	R	4	1	0	0	1	0	1	R		S	3
Dibutyl phthalate	230								CAS No			84-74-2				
Dibutyl terephthalate	2430	5	(3)	(3)	R	4	2	0	0	(0)	0	0			S	0
Dibutyl terephthalate	3596								CAS No							
Dichlorobenzene (all isomers)	333	3	4	4	NR	3	1	1	0	1	(2)	2	CMR	T	S	3
Dichlorobenzene (all isomers)	232								CAS No							
3,4-Dichlorobut-1-ene	2079	2	2	2	NR	3	NI	1	0	2	2	3			S	3
3,4-Dichloro-1-butene	56								CAS No			760-23-6				
1,1-Dichloroethane	590	1	NI	1	NR	1	NI	1	(1)	0	2	2			SD	2
1,1-Dichloroethane	4								CAS No			75-34-3				
1,2-Dichloroethane	591	1	1	1	NR	2	0	1	0	2	1	2	C		SD	3
Ethylene dichloride	330								CAS No			107-06-2				
1,6-Dichlorohexane	593	3	NI	3	NR	3	NI	0	(0)	(0)	0	0			S	0
1,6-Dichlorohexane	19								CAS No			2163-00-0				

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 20 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Dichloromethane	594	1	2	2	NR	1	0	1	0	0	2	2	C		SD	3
Dichloromethane	234								CAS No		75-09-2					
2,4-Dichlorophenol	596	3	2	2	NR	3	2	3	2	3	3	3		T	S	3
2,4-Dichlorophenol	30								CAS No		120-83-2					
2,4-dichlorophenoxyacetic acid, choline salt	2523	2	2	2	NR	1	1	1	0	0	1	2			D	2
2,4-dichlorophenoxyacetic acid, choline salt	4232								CAS No							
2,4-Dichlorophenoxyacetic acid, diethanolamine salt, solution	599	0	1	1	R	2	NI	1	0	(3)	1	3		(T)	D	3
2,4-Dichlorophenoxyacetic acid, diethanolamine salt solution	32								CAS No							
2,4-Dichlorophenoxyacetic acid, dimethylamine salt, 70 % or less solution	600	0	1	1	R	3	NI	1	0	(3)	1	3		(T)	D	3
2,4-Dichlorophenoxyacetic acid, dimethylamine salt solution (70% or less)	33								CAS No							
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt soln.	602	0	NI	0	R	2	NI	1	0	(3)	(1)	3		(T)	D	3
2,4-Dichlorophenoxyacetic acid, triisopropanolamine salt solution	34								CAS No							
1,1-Dichloropropane	605	2	1	1	NR	2	1	0	0	1	1	1			SD	1
1,1-Dichloropropane	5								CAS No		78-99-9					
1,2-Dichloropropane	606	2	1	1	NR	2	0	1	0	2	2	2			SD	2
1,2-Dichloropropane	9								CAS No		78-87-5					
1,3-Dichloropropane	607	2	1	1	NR	2	1	0	NI	NI	NI	NI			SD	NI
1,3-Dichloropropane	12								CAS No		142-28-9					
Dichloropropane and dichloropropene, mixture	608	(2)	(1)	(1)	(NR)	(4)	(1)	2	1	2	3	3	CSs		SD	3
Dichloropropene/Dichloropropane mixtures	235								CAS No		8003-19-8					
1,3-Dichloropropene	612	1	NI	1	NR	4	1	2	1	2	3	3	CSs		SD	3
1,3-Dichloropropene	13								CAS No		542-75-6					
2,2-Dichloropropionic acid	609	2	2	2	NR	2	NI	1	0	(3)	3	3			D	3
2,2-Dichloropropionic acid	28								CAS No		75-99-0					
Di-(2-chloro-iso-propyl) ether	615	2	2	2	NR	2	NI	2	0	2	0	2			SD	2
2,2'-Dichloroisopropyl ether	25								CAS No		108-60-1					
Dicyclopentadiene(80-90%)/Co-dimers(10-20%), mixtures	2389	2	3	3	NR	3	0	2	0	3	2	2	AR		FED	3
Dicyclopentadiene, Resin Grade, 81-89%	3559								CAS No							
Diethanolamine	620	0	NI	0	R	1	0	1	0	0	2	3	T		D	3
Diethanolamine	236								CAS No		111-42-2					

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 21 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Diethylamine	621	0	NI	0	R	2	NI	1	2	3	3C	3			DE	3
Diethylamine	240								CAS No		109-89-7					
2,6-Diethylaniline	1437	3	3	3	NR	2	NI	1	1	(2)	1	2			FD	2
2,6-Diethylaniline	35								CAS No		579-66-8					
Diethyl benzene (mixed isomers)	624	4	4	4	NR	3	NI	0	(0)	(2)	2	1			F	2
Diethylbenzene	242								CAS No		25340-17-4					
Di-(2-ethylbutyl) phthalate	625	5	NI	5	R	0	2	0	0	(1)	1	(1)	R		Fp	3
Di-(2-ethylbutyl) phthalate	2750								CAS No		84-75-3					
Diethylene glycol	628	0	NI	0	R	0	0	1	0	2	1	1			D	2
Diethylene glycol	243								CAS No		111-46-6					
Diethylene glycol di-n-butyl ether	629	2	NI	2	NI	1	NI	0	0	(1)	1	1			FD	1
Diethylene glycol dibutyl ether	244								CAS No		112-73-2					
Diethylene glycol diethyl ether	630	0	NI	0	NR	0	NI	1	0	(2)	(2)	2			D	2
Diethylene glycol diethyl ether	245								CAS No		112-36-7					
Diethylene glycol initiated polyoxypropylene diamine	2353	0	NI	0	NR	2	NI	0	0	(3)	3B	(3)			D	3
Diethylene glycol initiated polyoxypropylene diamine	3113								CAS No							
Diethylene glycol initiated polyoxypropylene diamine	2353	0	NI	0	NR	2	NI	0	0	(3)	3B	(3)			D	3
Polyetheramine	2946								CAS No							
Diethylene glycol phthalate	1438	2	NI	2	NR	1	NI	0	0	(2)	(1)	2			S	2
Diethylene glycol phthalate	247								CAS No							
Diethylene triamine	638	0	1	1	(R)	2	NI	1	3	3	3A	3	Ss		FD	3
Diethylenetriamine	248								CAS No		111-40-0					
Diethylenetriamine pentaacetic acid, pentapotassium salt solution (40%) (**)	2466	1	NI	1	NR	2	NI	NI	NI	NI	NI	NI			D	NI
Diethylenetriamine pentaacetic acid, pentapotassium salt (40% solution)	3929								CAS No							
Diethylenetriamine pentaacetic acid, pentasodium salt (40% solution in water)	2076	0	NI	0	NR	0	NI	0	(0)	(0)	0	0			D	0
Diethylenetriaminepentaacetic acid, pentasodium salt solution	249								CAS No							
Diethylenetriamine pentamethylene phosphonic acid, pentasodium salt solution (47 %) (**)	2467	0	NI	0	R	2	NI	NI	NI	NI	NI	NI			D	NI
Diethylenetriamine pentamethylene phosphonic acid, pentasodium salt solution	3930								CAS No							
Diethyl ethanolamine	622	0	NI	0	NR	3	NI	1	1	2	3	3			D	3
Diethylaminoethanol	241								CAS No		100-37-8					

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 22 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Diethyl ether	640	0	1	1	NR	0	NI	1	0	0	1	1			DE	2
Diethyl ether	237								CAS No		60-29-7					
Di-(2-ethylhexyl) adipate	641	0	2	2	R	4	2	0	0	0	1	1	R		Fp	3
Di-(2-ethylhexyl) adipate	222								CAS No		103-23-1					
Di-(2-ethylhexyl) phosphoric acid	643	(2)	1	1	NR	2	NI	0	1	(2)	2	2			Fp	2
Di-(2-ethylhexyl) phosphoric acid	223								CAS No		298-07-7					
Di-(2-ethylhexyl) phthalate	642	0	4	4	R	0	0	0	0	1	1	1	R		Fp	3
Di-(2-ethylhexyl) phthalate	2751								CAS No		117-81-7					
Diethyl phthalate	648	3	3	3	R	2	0	0	0	(1)	1	1			S	1
Diethyl phthalate	238								CAS No		84-66-2					
Diethyl sulphate	649	1	NI	1	R	(2)	NI	1	2	3	2	3	CM		SD	3
Diethyl sulphate	239								CAS No		64-67-5					
Diglycidyl ether of Bisphenol A	653	3	NI	3	NR	4	NI	0	0	(2)	1	2	Ss		S	2
Diglycidyl ether of bisphenol A	250								CAS No		1675-54-3					
Diglycidyl ether of Bisphenol F	728	0	NI	0	NR	3	NI	0	(0)	(2)	1	(2)	SsR		S	3
Diglycidyl ether of bisphenol F	251								CAS No		55492-52-9					
Diheptyl phthalate	655	0	(4)	(4)	R	0	NI	0	0	(1)	1	1			Fp	3
Diheptyl phthalate	252								CAS No		3648-21-3					
Di-n-hexyl adipate	656	5	NI	5	(NR)	5	0	0	0	(1)	0	1			FE	1
Di-n-hexyl adipate	224								CAS No		110-33-8					
Di-hexyl phthalate	2125	5	NI	5	R	0	2	0	0	(1)	1	1	R		Fp	3
Dihexyl phthalate	253								CAS No		84-75-3					
1,4-Dihydro-9,10-dihydroxy anthracene disodium salt (soln.)	657	1	NI	1	NI	1	NI	0	NI	NI	NI	NI			D	NI
1,4-Dihydro-9,10-dihydroxyanthracene, disodium salt solution	15								CAS No							
Diisobutene	575	4	4	4	NR	3	NI	0	0	0	1	0			FE	2
Diisobutylene	257								CAS No		11071-47-9					
Diisobutylamine	576	(2)	NI	(2)	(R)	(3)	NI	2	(2)	2	(3)	(3)			FED	3
Diisobutylamine	256								CAS No		110-96-3					
Diisobutyl ketone	579	3	NI	3	R	2	NI	0	0	2	2	2			F	2
Diisobutyl ketone	254								CAS No		108-83-8					

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 23 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Diisobutyl phthalate	581	4	(4)	4	R	(4)	1	0	0	1	0	0	R		S	3
Diisobutyl phthalate	255									CAS No	84-69-5					
Diisodecyl phthalate	619	0	0	0	(R)	0	(0)	0	0	(1)	0	1			Fp	2
Diisodecyl phthalate	3119									CAS No	26761-40-0					
Diisoheptyl phthalate	2391	0	(4)	(4)	R	0	0	0	0	(1)	1	1	R		Fp	3
Diisoheptyl phthalate	3561									CAS No						
Diisononyl adipate	690	0	NI	0	R	0	0	0	0	(1)	1	1			Fp	2
Diisononyl adipate	258									CAS No	33703-08-1					
Diisononyl phthalate	691	0	0	0	R	0	0	0	0	(0)	0	0			Fp	2
Diisononyl phthalate	3120									CAS No						
Diisooctyl phthalate	693	0	4	4	(R)	0	0	0	0	(1)	1	0			Fp	2
Diisooctyl phthalate	259									CAS No	27554-26-3					
Diisopropanolamine	703	0	NI	0	NR	1	NI	0	0	0	2	3			FD	3
Diisopropanolamine	260									CAS No	110-97-4					
Diisopropylamine	705	1	NI	1	NR	2	0	1	1	2	3	3			ED	3
Diisopropylamine	261									CAS No	108-18-9					
Diisopropyl benzene (mixed isomers)	2220	5	4	4	NR	4	NI	0	0	2	2	1		(T)	F	2
Diisopropylbenzene (all isomers)	262									CAS No						
1,3-Diisopropylbenzene	706	5	4	4	NR	4	NI	0	0	2	2	1			F	2
1,3-Diisopropyl benzene	2626									CAS No	25321-09-9					
Diisopropyl ether	711	1	NI	1	NR	2	NI	0	0	0	1	2			E	2
Isopropyl ether	406									CAS No	108-20-3					
Diisopropyl naphthalene, mixed isomers	712	5	4	4	NR	3	NI	0	0	(1)	1	1			Fp	2
Diisopropyl naphthalene	263									CAS No	38640-62-9					
Dimethyl acetamide	658	0	NI	0	R	1	NI	0	0	2	1	2			D	2
N,N-Dimethylacetamide	2730									CAS No	127-19-5					
Dimethyl acetamide	658	0	NI	0	R	1	NI	0	0	2	1	2			D	2
N,N-Dimethylacetamide solution (40% or less)	466									CAS No	127-19-5					
Dimethyl adipate	659	1	NI	1	(R)	4	NI	0	0	(0)	1	1			SD	2
Dimethyl adipate	264									CAS No	627-93-0					

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 24 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Dimethylamine (40-50% aq.sol.)	661	0	NI	0	R	3	0	2	0	2	3B	3	Ss	NT	DE	3
Dimethylamine solution (greater than 45% but not greater than 55%)	271								CAS No		124-40-3					
Dimethylamine (40-50% aq.sol.)	661	0	NI	0	R	3	0	2	0	2	3B	3	Ss	NT	DE	3
Dimethylamine solution (greater than 55% but not greater than 65%)	272								CAS No		124-40-3					
Dimethylamine (40-50% aq.sol.)	661	0	NI	0	R	3	0	2	0	2	3B	3	Ss	NT	DE	3
Dimethylamine solution (45% or less)	270								CAS No		124-40-3					
N,N-Dimethyl cyclohexylamine	665	2	NI	2	NR	2	NI	1	2	3	3C	3			FD	3
N,N-Dimethylcyclohexylamine	467								CAS No		98-94-2					
Dimethyl disulphide	1616	1	NI	1	NR	3	2	2	0	2	1	1			SD	2
Dimethyl disulphide	2504								CAS No		624-92-0					
N,N-Dimethyldodecylamine	2126	3	NI	3	R	4	NI	1	(1)	(3)	3	3			F	3
N,N-Dimethyldodecylamine	468								CAS No		112-18-5					
Dimethylethanolamine	667	0	NI	0	R	2	NI	1	1	2	3	3			D	3
Dimethylethanolamine	273								CAS No		108-01-0					
Dimethyl formamide	676	0	0	0	R	1	0	0	1	2	1	2	R		D	3
Dimethylformamide	274								CAS No		68-12-2					
Dimethyl glutarate	670	0	NI	0	R	3	NI	0	0	2	3	2	A		SD	3
Dimethyl glutarate	265								CAS No		26717-67-9					
Dimethyl hydrogen phosphite	673	0	NI	0	NR	2	NI	1	0	0	1	1			D	1
Dimethyl hydrogen phosphite	266								CAS No		868-89-9					
2,2-Dimethyloctanoic acid	675	3	NI	3	R	4	1	0	0	(2)	2	2			Fp	2
Dimethyl octanoic acid	267								CAS No		29662-90-6					
Dimethyl phthalate	678	2	2	2	R	2	0	0	0	(1)	0	1			SD	1
Dimethyl phthalate	268								CAS No		131-11-3					
2,2-Dimethylpropane-1,3-diol	679	0	0	0	NR	0	0	0	0	0	2	2			FD	2
2,2-Dimethylpropane-1,3-diol (molten or solution)	29								CAS No		126-30-7					
Dimethyl succinate	681	0	NI	0	NI	2	NI	0	0	0	0	2			SD	2
Dimethyl succinate	269								CAS No		106-65-0					
Dinitrotoluene	688	2	2	2	NR	4	2	2	(2)	(2)	1	0	CMR		S	3
Dinitrotoluene (molten)	276								CAS No		25321-14-6					

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 25 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Dinonyl phthalate	689	0	NI	0	R	0	0	0	0	(1)	1	1			Fp	2
Dinonyl phthalate	2993									CAS No			84-76-4			
Di-n-octyl phthalate	692	0	(4)	(4)	(R)	0	0	0	0	(1)	1	(1)			Fp	2
Diocetyl phthalate	277									CAS No			117-84-0			
1,4-Dioxane	682	0	0	0	NR	0	0	0	0	0	0	2	C		D	3
1,4-Dioxane	16									CAS No			123-91-1			
Dipentene	686	4	NI	4	NR	2	NI	0	0	(2)	2	2	Ss		F	3
Dipentene	278									CAS No			138-86-3			
Diphenyl	694	3	4	4	R	4	1	0	0	(1)	0	1			S	1
Diphenyl	279									CAS No			92-52-4			
Diphenylamine (molten)	2186	3	3	3	NR	3	1	0	0	(1)	1	1			S	1
Diphenylamine (molten)	285									CAS No						
Diphenylamine, reaction product with 2,4,4-trimethylpentene	1500	NI	1	1	NR	3	NI	0	0	(1)	1	1			Fp	2
Diphenylamine, reaction product with 2,2,4-Trimethylpentene	286									CAS No						
Diphenylamines, alkylated	1770	5	NI	5	NR	(3)	NI	0	0	(1)	(1)	(1)			F	2
Diphenylamines, alkylated	287									CAS No						
Diphenyl/Diphenyl ether (mixtures)	698	NI	NI	4	NR	4	1	0	0	(1)	1	1		(T)	S	1
Diphenyl/Diphenyl ether mixtures	283									CAS No			8004-13-5			
Diphenyl ether	699	4	4	4	NR	4	NI	0	0	0	1	1		T	S	1
Diphenyl ether	281									CAS No			101-84-8			
Diphenyl ether/ Biphenyl phenyl ether mixtures	702	5	NI	5	NR	4	NI	0	0	0	1	1		(T)	S	1
Diphenyl ether/Diphenyl phenyl ether mixture	282									CAS No						
Diphenylmethane-4,4'-diisocyanate (#)	700	5	2	2	NR	0	0	0	0	3	2	2	SsSr		S	3
Diphenylmethane diisocyanate	288									CAS No			101-68-8			
Diphenylol propane-epichlorohydrin resins	2237	3	NI	3	NR	4	NI	0	0	(2)	1	2			S	2
Diphenylol propane-epichlorohydrin resins	290									CAS No						
Di-n-propylamine	704	1	NI	1	NR	3	NI	2	2	2	3C	3			FED	3
Di-n-propylamine	225									CAS No			142-84-7			
Dipropylene glycol	707	0	1	1	R	0	NI	0	0	0	0	1			D	1
Dipropylene glycol	291									CAS No			25265-71-8			

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 26 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Dipropylene glycol dibenzoate	708	3	NI	3	R	3	NI	0	0	0	0	0			S	0
Dipropylene glycol dibenzoate	2431								CAS No			94-51-9				
Di-n-propyl phthalate	713	3	NI	3	(R)	3	NI	(0)	(0)	(1)	(1)	(1)	R		S	3
Di-n-propyl phthalate	2752								CAS No			131-16-8				
Distilled Resin Oil, DRO	2299	(3)	NI	(3)	(NR)	(3)	NI	0	0	(2)	2	1	MN		FE	3
Resin oil, distilled	2958								CAS No							
Dithiocarbamate ester (C7-C35)	2185	NI	2	2	NR	4	NI	0	0	(1)	1	1			S	1
Dithiocarbamate ester (C7-C35)	2371								CAS No							
Ditridecyl adipate	2351	0	NI	0	NR	0	NI	0	0	(2)	2	1			Fp	2
Ditridecyl adipate	293								CAS No							
Ditridecyl phthalate	714	0	(0)	0	NR	0	(0)	0	0	(1)	1	(1)			Fp	2
Ditridecyl phthalate	2994								CAS No			119-06-2				
Diundecyl phthalate	715	0	(0)	0	NR	0	0	0	0	(1)	1	1			Fp	2
Diundecyl phthalate	294								CAS No			3648-20-2				
Dodecane	718	5	NI	5	(R)	0	NI	0	0	(1)	(1)	(0)			Fp	2
Dodecane (all isomers)	295								CAS No			112-40-3				
tert-Dodecanethiol	2233	5	4	4	NR	0	0	0	0	(2)	2	1	Ss		F	3
tert-Dodecanethiol	2418								CAS No							
1-Dodecanol	719	5	2	2	R	4	1	0	0	(1)	1	(1)			Fp	2
Dodecyl alcohol	298								CAS No			112-53-8				
1-Dodecene (#)	2473	5	NI	5	R	0	NI	0	0	1	1	(0)	A		F	3
1-Dodecene	3990								CAS No			112-41-4				
Dodecene (all isomers) (#)	720	5	NI	5	NR	4	NI	0	0	1	1	0	A		F	3
Dodecene (all isomers)	296								CAS No							
2-Dodecenyl succinic acid, dipotassium salt, solution	727	4	NI	4	NR	1	NI	(0)	(0)	NI	NI	NI			D	NI
Dodecenylsuccinic acid, dipotassium salt solution	297								CAS No			57195-28-5				
Dodecylamine/Tetradecylamine mixture	721	3	NI	3	R	4	NI	1	0	(3)	3	3			F	3
Dodecylamine/Tetradecylamine mixture	303								CAS No							
Dodecyl benzene	126	0	NI	0	NR	0	3	0	0	(2)	(2)	(1)			F	2
Dodecylbenzene	304								CAS No			123-01-3				

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 27 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3		
Dodecyl benzene sulphonic acid (contains 1.5% Sulphuric acid)	1739	NI	NI	3	R	3	1	1	(1)	(2)	(1)	(1)			D	2		
Alkyl (C11-C17) benzene sulphonic acid	101								CAS No									
Dodecyl diphenyl oxide disulphonate (solns.)	723	(5)	NI	5	NR	4	1	1	0	(3)	1	3			D	3		
Dodecyl diphenyl ether disulphonate solution	299								CAS No									
Dodecyl hydroxypropyl sulphide (LOA)	1861	5	NI	5	NI	4	NI	0	0	(0)	0	0			FD	0		
Dodecyl hydroxypropyl sulphide	2252								CAS No									
n-Dodecyl mercaptan	2462	5	3	3	NR	5	NI	0	0	(3)	3	(3)	Ss		F	3		
n-Dodecyl mercaptan	3743								CAS No									
Dodecyl/octadecyl methacrylate (mixtures)	2116	(5)	NI	(5)	(NR)	(0)	NI	0	0	(1)	1	(1)			Fp	2		
Dodecyl/Octadecyl methacrylate mixture	1717								CAS No									
Dodecyl/pentadecyl methacrylate (mixture)	724	(5)	NI	(5)	(NR)	(0)	NI	0	(0)	(1)	(1)	(1)			Fp	2		
Dodecyl/Pentadecyl methacrylate mixture	302								CAS No									
Dodecyl phenol	725	0	4	4	NI	4	(3)	0	0	(3)	3	2	R		Fp	3		
Dodecyl phenol	301								CAS No								27193-86-8	
Dodecyl-, Tetradecyl-, Hexadecyl-dimethylamine mixture	2248	3	NI	3	R	5	2	1	(1)	(3)	3C	3			F	3		
Alkyl (C12+) dimethylamine	2485								CAS No									
Dodecylxylene	1763	0	NI	0	NI	0	NI	0	0	(1)	1	1			Fp	2		
Dodecyl Xylene	306								CAS No									
Epichlorohydrin	731	0	0	0	R	2	NI	2	2	3	3A	3	CSs		D	3		
Epichlorohydrin	309								CAS No								106-89-8	
Ethanol	732	0	NI	0	R	0	NI	0	0	0	1	2			D	2		
Ethyl alcohol	315								CAS No								64-17-5	
Ethanolamine	733	0	NI	0	R	2	0	1	1	3	3A	3			D	3		
Ethanolamine	311								CAS No								141-43-5	
Ethanoltriazine (aqueous solution)	2411	(0)	NI	(0)	R	3	NI	1	0	4	0	2	Ss		D	3		
1,3,5-Hexahydrotriethanol-1,3,5-triazine solution	3687								CAS No								4719-04-4	
Ethoxylated long chain (>C16)alkyloxyalkanamine (LOA)	2103	5	NI	5	NR	1	NI	0	0	(3)	3	(3)			Fp	3		
Ethoxylated long chain (C16+) alkyloxyalkylamine	2203								CAS No									
Ethoxylated tallow amine (>95%)	2313	0	NI	0	NR	4	NI	1	(1)	3	2	3	Ss		Fp	3		
Ethoxylated tallow amine (> 95%)	2959								CAS No									

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 28 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3		
Ethoxylated tallow amine, glycol mixture	2252	2	NI	2	NR	6	NI	1	0	3	2	3			D	3		
Ethoxylated tallow amine, glycol mixture	2476								CAS No									
Ethyl acetate	735	0	2	2	R	1	0	0	0	1	0	1			DE	2		
Ethyl acetate	312								CAS No								141-78-6	
Ethyl acetoacetate	736	0	0	0	R	1	NI	0	0	(1)	1	1			D	1		
Ethyl acetoacetate	313								CAS No								141-97-9	
Ethyl acrylate	734	1	NI	1	R	3	1	1	2	2	2	2	CSs	T	ED	3		
Ethyl acrylate	314								CAS No								140-88-5	
Ethylamine	1016	0	NI	0	R	2	NI	2	2	1	3	3			GD	3		
Ethylamine	322								CAS No								75-04-7	
Ethylamine solutions (72% or less)	2219	NI	NI	0	R	2	NI	2	2	1	3	3			DE	3		
Ethylamine solutions (72% or less)	323								CAS No									
Ethyl amyl ketone	1784	2	NI	2	NI	2	NI	0	0	(2)	2	NI			FD	2		
Ethyl amyl ketone	316								CAS No								106-68-3	
Ethylbenzene	740	3	2	2	R	3	(1)	0	0	0	2	2	T		FE	3		
Ethylbenzene	324								CAS No								100-41-4	
N-Ethyl butylamine	745	1	NI	1	NI	NI	NI	1	1	2	3	3			FED	3		
N-Ethylbutylamine	477								CAS No								13360-63-9	
Ethyl tert-butyl ether (#)	2085	1	NI	1	NR	2	0	0	0	(1)	1	0			E	1		
Ethyl tert-butyl ether	320								CAS No								637-92-3	
Ethyl butyrate	748	1	NI	1	NI	2	NI	0	0	(2)	2	NI			FED	2		
Ethyl butyrate	317								CAS No								105-54-4	
Ethyl cyclohexane	751	4	4	4	NR	3	NI	(0)	(0)	(1)	(1)	(1)			FE	2		
Ethylcyclohexane	325								CAS No								1678-91-7	
N-Ethyl cyclohexylamine	752	2	NI	2	NI	(3)	NI	1	2	2	3	3			FED	3		
N-Ethylcyclohexylamine	478								CAS No								5459-93-8	
S-Ethyl dipropylthiocarbamate	2081	3	2	2	NI	3	NI	1	1	2	2	(2)	N		F	3		
S-Ethyl dipropylthiocarbamate	2302								CAS No								759-94-4	
Ethylene carbonate	755	0	NI	0	R	0	NI	0	0	(2)	1	2			SD	2		
Ethylene carbonate	326								CAS No								96-49-1	

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 29 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Ethylene chlorohydrin	756	0	0	0	R	3	NI	2	3	4	2	3			D	3
Ethylene chlorohydrin	327								CAS No		107-07-3					
Ethylene cyanohydrin	757	0	0	0	NI	2	NI	1	0	(2)	1	2			D	2
Ethylene cyanohydrin	328								CAS No		109-78-4					
Ethylene diamine	758	0	1	1	R	3	1	1	2	1	3	3	SsSr		D	3
Ethylenediamine	343								CAS No		107-15-3					
Ethylene diamine, tetra acetic acid, di- and tetra-sodium salt	759	0	NI	0	NR	2	0	1	(1)	(2)	1	2			D	2
Ethylenediaminetetraacetic acid, tetrasodium salt solution	344								CAS No		64-02-8					
Ethylene dibromide	760	1	2	2	NR	3	NI	2	2	2	3	3	CRT		SD	3
Ethylene dibromide	329								CAS No		106-93-4					
Ethylene glycol	761	0	NI	0	R	0	NI	1	(1)	(1)	0	0			D	1
Ethylene glycol	331								CAS No		107-21-1					
Ethylene glycol acrylate	869	0	NI	0	R	4	NI	1	3	3	3	3	MSs		D	3
2-Hydroxyethyl acrylate	51								CAS No		818-61-1					
Ethylene glycol butyl ether acetate (#)	764	1	NI	1	R	2	NI	1	1	(1)	1	1			FD	1
Ethylene glycol butyl ether acetate	334								CAS No		112-07-2					
Ethylene glycol diacetate	765	0	NI	0	NI	2	NI	0	0	(1)	1	NI			D	1
Ethylene glycol diacetate	335								CAS No		111-55-7					
Ethylene glycol ethyl ether acetate	767	0	NI	0	R	2	0	1	0	1	1	1	R		D	3
2-Ethoxyethyl acetate	41								CAS No		111-15-9					
Ethylene glycol methyl butyl ether	772	1	NI	1	NI	1	NI	NI	NI	NI	NI	NI			D	NI
Ethylene glycol methyl butyl ether	336								CAS No		13343-98-1					
Ethylene glycol methyl ether acetate	773	0	NI	0	R	2	NI	0	0	(0)	(1)	1	R		D	3
Ethylene glycol methyl ether acetate	337								CAS No		110-49-6					
Ethylene glycol monoacetate	762	0	NI	0	R	2	NI	0	0	(3)	NI	(3)			D	3
Ethylene glycol acetate	333								CAS No		542-59-6					
Ethylene glycol monoalkyl ethers	2268	0	NI	0	R	2	NI	1	2	2	1	2			D	2
Ethylene glycol monoalkyl ethers	338								CAS No							
Ethylene glycol monoethyl ether	766	0	NI	0	R	0	0	0	0	1	2	2			D	3
2-Ethoxyethanol	40								CAS No		110-80-5					

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 30 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Ethylene glycol phenyl ether	775	1	NI	1	R	1	0	1	0	0	1	2			SD	2
Ethylene glycol phenyl ether	339								CAS No			122-99-6				
Ethylene glycol phenyl ether/Diethylene glycol phenyl ether, mixture	1740	NI	NI	1	R	1	NI	1	0	(2)	(2)	(2)			SD	2
Ethylene glycol phenyl ether/Diethylene glycol phenyl ether mixture	340								CAS No							
Ethylene glycol (>75%)/Sodium alkyl carboxylates/borax mixture (#)	2477	NI	(1)	(1)	R	1	NI	1	(1)	(2)	(1)	(1)	R		D	3
Ethylene glycol (>75%)/Sodium alkyl carboxylates/borax mixture	4006								CAS No							
Ethylene glycol (>85%)/Sodium alkyl carboxylates mixture (#)	2475	NI	(1)	(1)	R	1	NI	1	(1)	(1)	0	0			D	1
Ethylene glycol (>85%)/Sodium alkyl carboxylates mixture	4005								CAS No							
Ethylene oxide	77	NI	NI	NI	NI	NI	NI	1	(1)	3	3	3	CMR		GD	3
Ethylene oxide	2744								CAS No			75-21-8				
Ethylene-propylene copolymer	1508	NI	NI	NI	NI	NI	NI	(0)	(0)	(0)	(0)	(0)			NI	0
Propylene-Butylene copolymer	633								CAS No							
Ethylene vinyl acetate copolymer (emulsion)	779	0	1	1	NR	0	0	0	(0)	(2)	2	0			S	2
Ethylene-vinyl acetate copolymer (emulsion)	342								CAS No							
Ethyl 3-ethoxypropionate	1439	1	NI	1	NR	2	NI	0	0	0	1	1			FD	1
Ethyl-3-ethoxypropionate	321								CAS No			763-69-9				
2-Ethylhexanoic acid	776	2	NI	2	R	2	NI	0	0	(2)	2	2			FD	3
2-Ethylhexanoic acid	45								CAS No			149-57-5				
2-Ethylhexyl acrylate	782	3	NI	3	R	2	NI	0	0	(2)	2	2	Ss		F	3
2-Ethylhexyl acrylate	46								CAS No			103-11-7				
2-Ethylhexyl esters of fatty acids	2221	0	NI	0	R	1	NI	0	(0)	(0)	1	0			F	1
	2578								CAS No							
2-Ethyl-2-(hydroxymethyl)propane-1,3-diol C8-C10 ester (LOA)	2054	0	NI	0	R	0	NI	0	(0)	(0)	0	(0)			Fp	2
2-Ethyl-2-(hydroxymethyl) propane-1,3-diol (C8-C10) ester	42								CAS No							
5-Ethylidene-2-norbornene	783	3	3	3	NR	3	0	0	0	2	1	2			FE	2
Ethylidene norbornene	345								CAS No			16219-75-3				
Ethyl isoamyl ketone	737	NI	NI	NI	NI	NI	NI	0	0	(1)	1	(2)			FD	2
Ethyl isoamyl ketone	2618								CAS No			541-85-5				
Ethyl methacrylate	785	1	NI	1	R	2	0	0	0	0	(2)	(2)	Ss		FE	2
Ethyl methacrylate	318								CAS No			97-63-2				

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 31 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
N-Ethyl-2-methylamine	2228	0	NI	0	NR	2	NI	3	2	2	3A	3			D	3
N-Ethylmethylamine	2417								CAS No							
o-Ethyl phenol	788	2	NI	2	NI	(2)	NI	1	NI	NI	NI	NI			S	NI
o-Ethylphenol	535								CAS No		90-00-6					
Ethyl propionate	790	1	NI	1	NI	2	0	0	(1)	(2)	2	2			ED	2
Ethyl propionate	319								CAS No		105-37-3					
2-Ethyl-3-propylacrolein	791	2	NI	2	R	3	NI	0	0	1	3	3			F	3
2-Ethyl-3-propylacrolein	43								CAS No		645-62-5					
Ethyl toluene (all isomers)	2297	3	NI	3	NI	(3)	NI	0	0	0	2	2			F	2
Ethyl toluene	346								CAS No							
Fatty acid methyl esters	2362	0	NI	0	R	2	NI	0	(0)	(2)	2	2			Fp	2
Fatty acid methyl esters (m)	3125								CAS No							
Fatty acids, essentially linear, C6-C18, 2-ethylhexyl ester	2253	0	NI	0	R	1	NI	0	0	(1)	1	0			Fp	2
Fatty acid (C8-C16) ethyl hexyl esters	2759								CAS No							
Fatty acids, essentially linear, C6-C18, 2-ethylhexyl ester	2253	0	NI	0	R	1	NI	0	0	(1)	1	0			Fp	2
Fatty acids, essentially linear (C6-C18) 2-ethylhexyl ester	1914								CAS No							
Fatty acids, linear, C8-C18 saturated with C18 unsaturated	2260	(4)	NI	(4)	R	(4)	(1)	(0)	(0)	(1)	(1)	(1)			Fp	2
Fatty acids, (C8-C18)	2779								CAS No							
Fatty acids, linear C12+ saturated with C12+ unsaturated	2261	5	0	0	(R)	0	NI	(0)	(0)	(1)	(1)	(1)			Fp	2
Fatty acids, (C12+)	2780								CAS No							
Fatty acids saturated, C8-C10	2324	0	NI	0	R	4	NI	0	0	(3)	3C	3			Fp	3
Fatty acids, (C8-C10)	3079								CAS No							
Fatty acids, unsaturated, linear, C16+	2259	0	0	0	R	(0)	NI	0	0	(0)	0	0			Fp	2
Fatty acids, (C16+)	2778								CAS No							
Fatty alcohols, linear, (C12+)	2326	(5)	(2)	(2)	(R)	(4)	(1)	0	0	(1)	1	1			Fp	2
Alcohols (C12+), primary, linear	3081								CAS No							
Fatty alcohols, linear, (C16+)	2327	(5)	(2)	(2)	(R)	(0)	(1)	0	0	(1)	1	1			Fp	2
Alcohols, linear (C16+)	3082								CAS No							
Ferric chloride	339	Inorg	5	5	Inorg	2	0	1	(0)	(3)	2	3			D	3
Ferric chloride solutions	348								CAS No		7705-08-0					

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 32 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Ferric hydroxyethyl ethylene diamine triacetic acid, tri- sodium salt, solution	796	NI	NI	NI	NI	NI	NI	0	0	(1)	(0)	1			D	1
Ferric hydroxyethylethylenediaminetriacetic acid, trisodium salt solution	349									CAS No						
Ferric nitrate/nitric acid solution	337	Inorg	(5)	(5)	Inorg	(2)	(0)	0	(0)	(3)	3	3			D	3
Ferric nitrate/Nitric acid solution	350									CAS No						
Fish by-products (fresh)	2499	NI	NI	(0)	NR	1	(0)	(0)	(0)	(0)	(0)	(0)			FD	1
Fish by-products (fresh) (*)	3893									CAS No						
Fish oil (containing less than 10% free fatty acids)	2316	0	NI	0	R	2	NI	(0)	(0)	(1)	(0)	(1)			Fp	2
Fish oil	3046									CAS No						
Fish protein concentrate (containing 4% or less formic acid)	2502	NI	NI	(0)	R	1	(0)	(0)	(0)	(0)	(1)	(1)			D	1
Fish protein concentrate (containing 4% or less formic acid)	4090									CAS No						
Fish silage (containing 3% or less formic acid with antioxidant)	2500	NI	NI	(0)	R	0	(0)	(0)	(0)	(0)	(1)	(1)			FD	1
Fish silage (containing 3% or less formic acid with antioxidant)	3892									CAS No						
Fish silage protein concentrate (containing 4% or less formic acid)	2487	NI	0	0	R	2	NI	(0)	(0)	(0)	(1)	(1)			D	2
Fish silage protein concentrate (containing 4% or less formic acid)	4062									CAS No						
Fish solubles	1509	NI	NI	NI	NI	NI	NI	(0)	(0)	(0)	(0)	(0)			NI	NI
Fish solubles (water-based fish meal extract)	351									CAS No						
Fluorosilicic acid	806	Inorg	0	0	Inorg	2	NI	2	(2)	4	3	3			D	3
Fluorosilicic acid	2716									CAS No	16961-83-4					
Fluorosilicic acid solution (20-30%)	2240	Inorg	2	2	Inorg	2	0	(1)	(1)	(3)	3B	3	T		D	3
Fluorosilicic acid solution (20-30%)	353									CAS No						
Formaldehyde (37%-50% solution)	807	0	NI	0	R	2	NI	2	2	3	3	3	CMSs	NT	D	3
Formaldehyde solutions (45% or less)	354									CAS No	50-00-0					
Formaldehyde, polymer with isobutyleneated phenol	2377	NI	NI	NI	NR	NI	NI	NI	NI	NI	NI	NI			Fp	NI
Formaldehyde, polymer with isobutyleneated phenol	1203									CAS No						
Formamide	808	0	NI	0	NR	1	NI	0	0	1	1	2	R		D	3
Formamide	355									CAS No	75-12-7					
Formic acid	809	0	NI	0	R	2	NI	1	(1)	2	3C	3			D	3
Formic acid (over 85%)	3830									CAS No	64-18-6					
Formic acid	809	0	NI	0	R	2	NI	1	(1)	2	3C	3			D	3
Formic acid (85% or less acid)	356									CAS No	64-18-6					

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 33 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3			
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								CAS No										
Fumaric adduct of rosin (water dispersion)	810	3	NI	3	NR	3	NI	0	(0)	(3)	0	3	Ss		D	3			
Fumaric adduct of rosin, water dispersion	357								CAS No								65997-04-8		
Furfural	812	0	NI	0	R	2	1	2	(2)	3	2	2	C		D	3			
Furfural	358								CAS No								98-01-1		
Furfuryl alcohol	813	0	NI	0	R	1	NI	2	2	3	2	2			D	2			
Furfuryl alcohol	359								CAS No								98-00-0		
Glucitol/glycerol blend propoxylated (containing 10% or more amines)	2441	2	NI	2	NR	1	1	1	0	(2)	(1)	(1)			D	2			
Glucitol/glycerol blend propoxylated (containing 10% or more amines)	3919								CAS No										
Glucitol/glycerol blend, propoxylated (containing less than 10% amines)	2368	0	NI	0	NR	1	NI	1	0	(2)	(1)	(1)			SD	2			
Glucitol/glycerol blend propoxylated (containing less than 10% amines)	3074								CAS No										
Glycerine	814	0	NI	0	R	0	0	0	0	(1)	0	1			D	1			
Glycerine	363								CAS No								56-81-5		
Glycerine (83%)/ Dioxane-dimethanol (17%) mixture	1743	NI	NI	NI	R	1	NI	0	(0)	(1)	(0)	1			D	1			
Glycerine (83%), Dioxanedimethanol (17%) mixture	364								CAS No										
Glycerol ethoxylated	2360	0	NI	0	R	0	NI	0	0	(0)	0	0			D	0			
Glycerol ethoxylated	3123								CAS No										
Glycerol monooleate	1898	0	0	0	R	0	NI	0	(0)	(1)	1	1			Fp	2			
Glycerol monooleate	365								CAS No								25496-72-4		
Glycerol propoxylated	2346	0	NI	0	NR	1	NI	1	0	(2)	1	0			D	2			
Glycerol propoxylated	3110								CAS No										
Glycerol, propoxylated and ethoxylated	2276	0	NI	0	NR	1	0	0	0	0	0	0			SD	2			
Glycerol, propoxylated and ethoxylated	2872								CAS No										
Glycerol/sorbitol blend, propoxylated and ethoxylated	2372	0	NI	0	NR	2	NI	NI	NI	NI	NI	NI			NI	NI			
Glycerol/sorbitol blend, propoxylated and ethoxylated	3136								CAS No										
Glycerol/sucrose blend, propoxylated and ethoxylated	2361	0	NI	0	NR	1	NI	0	0	0	0	0			SD	0			
Glycerol/sucrose blend propoxylated and ethoxylated	3124								CAS No										
Glyceryl triacetate	816	0	NI	0	R	1	0	1	0	0	0	1			D	1			
Glyceryl triacetate	367								CAS No								102-76-1		

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 34 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Glycidyl ester of C10 trialkyl acetic acid	441	3	NI	3	NR	3	NI	0	0	(2)	2	1			F	2
Glycidyl ester of C10 trialkylacetic acid	368									CAS No						
Glycine, Sodium salt, solution	817	0	NI	0	NI	0	NI	0	(0)	(1)	(0)	(1)			D	1
Glycine, sodium salt solution	369									CAS No	56-40-6					
Glycolic acid	2218	0	0	0	R	1	NI	1	(1)	2	3C	3			D	3
Glycolic acid solution (70% or less)	2539									CAS No						
Glyoxal solutions (40% or less)	84	0	NI	0	R	1	NI	0	0	2	2	3	MSsSr		D	3
Glyoxal solution (40% or less)	370									CAS No	107-22-2					
Glyoxylic acid	1535	0	NI	0	R	2	0	0	0	(3)	0	3	Ss		D	3
Glyoxylic acid solution (50 % or less)	371									CAS No	298-12-4					
Glyphosate solution, without surfactant	1765	0	0	0	NR	3	0	0	0	(3)	0	3			D	3
Glyphosate solution (not containing surfactant)	2204									CAS No	1071-83-6					
Grape Seed Oil	2442	(0)	NI	(0)	(R)	(0)	(0)	(0)	(0)	(1)	(0)	(1)			Fp	2
Grape Seed Oil	3643									CAS No	8024-22-4					
Groundnut oil	820	0	NI	0	R	(2)	NI	(0)	(0)	(0)	(0)	0			Fp	2
Groundnut oil	2769									CAS No	8002-03-7					
Heptane	827	4	NI	4	R	4	NI	0	0	0	(1)	1	A		E	2
Heptane (all isomers)	372									CAS No	142-82-5					
Heptanoic acid	831	2	NI	2	R	1	NI	0	0	1	3B	(3)			FD	3
n-Heptanoic acid	479									CAS No	111-14-8					
Heptanol (all isomers)	2223	2	NI	2	R	(2)	NI	0	0	(2)	(1)	(2)			FD	2
Heptanol (all isomers) (d)	373									CAS No						
1-Heptanol	828	2	NI	2	R	2	0	1	0	2	(2)	(2)			FD	2
1-Heptanol	2688									CAS No	111-70-6					
Heptene (all isomers)	2225	3	NI	3	NI	2	NI	(0)	(0)	(0)	(2)	(1)			E	2
Heptene (all isomers)	374									CAS No						
1-Heptene	832	3	NI	3	NI	2	NI	(0)	(0)	(0)	(2)	(1)			E	2
1-Heptene	2685									CAS No						
Heptyl acetate	833	3	NI	3	(R)	(3)	NI	0	0	(2)	1	2			F	2
Heptyl acetate	375									CAS No	112-06-1					

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 35 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3		
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								CAS No									
Hexahydro-1,3,5-trimethyl-1,3,5-triazine solution (45% or less)	2489	(2)	NI	(2)	R	3	NI	1	(1)	(3)	3A	3	Ss		D	3		
Hexahydro-1,3,5-trimethyl-1,3,5-triazine solution (45% or less)	4123								CAS No			108-74-7						
Hexamethylene diamine	845	0	NI	0	R	2	NI	1	1	(3)	3A	3	R		D	3		
Hexamethylenediamine solution	380								CAS No			124-09-4						
Hexamethylene diamine	845	0	NI	0	R	2	NI	1	1	(3)	3A	3	R		D	3		
Hexamethylenediamine (molten)	378								CAS No			124-09-4						
Hexamethylene diamine	845	0	NI	0	R	2	NI	1	1	(3)	3A	3	R		D	3		
Hexamethylenediamine	377								CAS No			124-09-4						
Hexamethylene diamine adipate, 50% in water	846	0	NI	0	R	1	NI	0	(0)	(0)	0	0			D	0		
Hexamethylenediamine adipate (50% in water)	379								CAS No			3323-53-3						
Hexamethylene diisocyanate	2142	3	0	0	NR	2	NI	1	2	4	3	3	SsSr		S	3		
Hexamethylene diisocyanate	18								CAS No			822-06-0						
Hexamethylene glycol	847	0	NI	0	R	1	NI	0	0	(1)	0	1			D	1		
Hexamethylene glycol	376								CAS No			629-11-8						
Hexamethyleneimine	848	1	NI	1	NI	2	NI	3	1	2	2	2			FED	2		
Hexamethyleneimine	381								CAS No			111-49-9						
Hexamethylene tetramine (40% solution)	849	0	NI	0	R	0	NI	0	0	(1)	0	1	Ss		D	2		
Hexamethylenetetramine solutions	382								CAS No			100-97-0						
Hexane	850	3	NI	3	R	4	NI	0	0	0	2	2	NA		E	2		
Hexane (all isomers)	383								CAS No			100-54-3						
Hexane	850	3	NI	3	R	4	NI	0	0	0	2	2	NA		E	2		
Hexane	2683								CAS No			100-54-3						
1,6-Hexanediol, distillation overheads	2143	4	NI	4	NR	2	NI	0	0	2	1	2			FED	2		
1,6-Hexanediol, distillation overheads	2641								CAS No									
Hexanoic acid	853	2	NI	2	R	2	NI	0	0	(3)	(3)	3			FD	3		
Hexanoic acid	384								CAS No			142-62-1						
1-Hexanol	854	1	0	0	(R)	2	NI	1	0	(3)	1	3			FD	3		
Hexanol	385								CAS No			111-27-3						

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 36 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3		
Hexene (all isomers)	2224	3	NI	3	R	3	NI	(0)	(0)	(1)	(1)	(1)			E	2		
Hexene (all isomers)	386								CAS No									
1-Hexene	855	3	NI	3	R	3	NI	0	0	0	1	1			E	2		
1-Hexene	2681										CAS No						592-41-6	
2-Hexene (mixed isomers)	856	3	NI	3	R	3	NI	(0)	(0)	0	(1)	(1)			E	2		
2-Hexene (mixed isomers)	2682										CAS No							
Hexyl acetate	857	2	NI	2	NI	3	NI	0	0	(1)	1	1			FE	2		
Hexyl acetate	387										CAS No						142-92-7	
sec-Hexyl acetate	858	2	NI	2	NI	3	NI	0	0	0	1	(2)			FED	2		
Methylamyl acetate	456										CAS No						108-84-9	
Hexylene glycol	859	0	NI	0	R	0	0	0	0	(3)	2	3			D	2		
Hexylene glycol	388										CAS No						107-41-5	
Hydrocarbon wax	2278	(5)	NI	(5)	NR	0	0	(0)	(0)	(0)	(0)	(0)	CT		Fp	3		
Hydrocarbon wax	741										CAS No							
Hydrochloric acid	864	Inorg	0	0	Inorg	1	NI	1	1	3	3C	3			DE	3		
Hydrochloric acid	389										CAS No						7647-01-0	
Hydrogenated Starch Hydrolysate	2347	0	NI	0	R	0	NI	0	0	(0)	0	0			D	0		
Hydrogenated starch hydrolysate	3077										CAS No							
Hydrogen peroxide, more than 60%	867	Inorg	0	0	Inorg	3	NI	1	0	2	3	3			D	3		
Hydrogen peroxide solutions (over 60% but not over 70% by mass)	390										CAS No						7722-84-1	
Hydrogen peroxide, more than 60%	867	Inorg	0	0	Inorg	3	NI	1	0	2	3	3			D	3		
Hydrogen peroxide, more than 60%	2689										CAS No						7722-84-1	
Hydrogen peroxide, more than 8% but not more than 60%	2231	Inorg	0	0	Inorg	3	NI	1	0	(2)	3	3			D	3		
Hydrogen peroxide solutions (over 8% but not over 60% by mass)	391										CAS No							
Hydrogen peroxide, more than 8% but not more than 60%	2231	Inorg	0	0	Inorg	3	NI	1	0	(2)	3	3			D	3		
Hydrogen peroxide, more than 8% but not more than 60%	2690										CAS No							
N-(2-Hydroxyethyl) ethylene diamine triacetic acid, trisodium salt (solution)	870	0	NI	0	NI	1	NI	0	0	(1)	1	1	R		D	3		
N-(Hydroxyethyl)ethylenediaminetriacetic acid, trisodium salt solution	470										CAS No						150-30-0	
[[[2-hydroxyethyl)imino]dimethylene]bisphosphonic acid, sodium salt	2493	0	NI	0	NR	1	NI	0	0	(0)	0	1			D	1		
	4127										CAS No						22036-78-8	

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 37 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
2-Hydroxy-4-(methylthio) butanoic acid	871	1	NI	1	R	1	NI	0	0	(3)	1	3			D	3
2-Hydroxy-4-(methylthio)butanoic acid	49									CAS No						
lcosa(oxypropane-2,3-diyl)s	2092	NI	NI	NI	NI	NI	NI	0	(0)	(2)	2	(2)			Fp	2
lcosa(oxypropane-2,3-diyl)s	2691									CAS No						
lcosa(oxypropane-2,3-diyl)s	2092	NI	NI	NI	NI	NI	NI	0	(0)	(2)	2	(2)			Fp	2
lcosa(oxypropane-2,3-diyl)s	392									CAS No						
Illipe oil (containing less than 10% free fatty acids)	2304	(0)	NI	(0)	(R)	(0)	NI	(0)	(0)	(0)	(0)	(0)			Fp	2
Illipe oil	3034									CAS No						
Imidazolium compounds, 1-benzyl-4,5-dihydro-1-(hydroxyethyl)-2-norcoco alkyl, chlorides	2505	(0)	NI	(0)	NR	4	NI	NI	NI	NI	(2)	(3)			Fp	3
Imidazolium compounds, 1-benzyl-4,5-dihydro-1-(hydroxyethyl)-2-norcoco alkyl, chlorides	4157									CAS No						
Interesterified Mixed Vegetable Oils	2355	0	NI	0	R	(0)	NI	(0)	(0)	(1)	(1)	(1)			Fp	2
Interesterified vegetable oils	3115									CAS No						
Isoalkanes (C16-C18)	2526	0	NI	0	R	1	NI	(0)	(0)	(0)	(0)	(0)	A		F	1
Isoalkanes (C16-C18)	4235									CAS No						
Isobutanol	382	0	NI	0	R	1	0	0	0	1	2	3			D	3
Isobutyl alcohol	397									CAS No						
Isobutyl formate	405	1	NI	1	NI	1	NI	0	(0)	0	(1)	(2)			E	2
Isobutyl formate	398									CAS No						
Isobutyl methacrylate	408	2	NI	2	NR	1	NI	0	0	0	2	2	Ss		FED	2
Isobutyl methacrylate	2673									CAS No						
Isobutyric acid	419	0	NI	0	R	2	NI	2	2	(3)	3	3			E	NI
Isobutyric acid	2459									CAS No						
Isodecanol	557	3	2	2	R	3	NI	0	0	0	2	1			Fp	2
Decyl alcohol (all isomers)	219									CAS No						
Isononanol	1059	3	NI	3	NR	3	1	0	0	(2)	2	2			Fp	2
Nonyl alcohol (all isomers)	510									CAS No						
Isononylaldehyde	2300	3	NI	3	NR	(3)	NI	0	0	(2)	2	1			F	2
Isononylaldehyde	2754									CAS No						
Isooctaldehyde	1071	2	NI	2	NI	3	NI	0	0	(1)	1	1			F	1
Octyl aldehydes	542									CAS No						

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 38 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Isooctanol	1076	3	NI	3	R	2	0	1	0	(2)	2	(2)			F	2
iso-Octanol	2675								CAS No		26952-21-6					
Isooctylamine	1081	2	NI	2	NI	3	NI	1	1	3	3	3			FD	3
2-Ethylhexylamine	48								CAS No		104-75-6					
Isopentene	1113	2	NI	2	NI	2	NI	(0)	(0)	(0)	(0)	(1)			E	2
iso-Pentene	2677								CAS No		563-45-1					
Isophorone	879	1	1	1	R	2	0	1	1	(2)	1	2			FD	2
Isophorone	399								CAS No		78-59-1					
Isophorone diamine	880	0	0	0	NR	2	0	1	(1)	(3)	3	3	Ss		D	3
Isophoronediamine	401								CAS No		2855-13-2					
Isophorone diisocyanate	881	1	NI	1	NR	3	NI	0	0	3	3	3	SsSr		S	3
Isophorone diisocyanate	400								CAS No		4098-71-9					
Isoprene	882	2	2	2	NR	3	1	0	0	0	1	2	CM		E	3
Isoprene	402								CAS No		78-79-5					
Isopropanol	1181	0	NI	0	R	0	0	0	0	0	1	2			D	2
Isopropyl alcohol	405								CAS No		67-63-0					
Isopropanolamine	1182	0	NI	0	R	2	NI	0	1	0	3	3			D	3
Isopropanolamine	403								CAS No		78-96-6					
Isopropyl acetate	1192	1	NI	1	R	1	NI	0	0	0	1	2			ED	2
Isopropyl acetate	404								CAS No		108-21-4					
Isopropylamine	1195	0	NI	0	R	2	NI	2	2	1	3	3			DE	3
Isopropylamine	407								CAS No		75-31-0					
Isopropylamine (70%)	2350	0	NI	0	R	2	NI	2	2	1	3	3			DE	3
Isopropylamine (70% or less) solution	395								CAS No							
Isopropyl benzene	1197	3	2	2	R	3	NI	0	0	0	2	1			FE	2
Propylbenzene (all isomers)	623								CAS No		98-82-8					
Isopropyl benzene	1197	3	2	2	R	3	NI	0	0	0	2	1			FE	2
Isopropylbenzene	2687								CAS No		98-82-8					
Isopropyl cyclohexane	1199	4	NI	4	(NR)	(3)	NI	(0)	(0)	(1)	(0)	(1)			FE	2
Isopropylcyclohexane	408								CAS No		696-29-7					

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 39 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Isopropyltoluenes	549	4	4	4	(NR)	3	NI	0	(0)	1	2	(1)			FE	2
p-Cymene	552								CAS No		99-87-6					
Isovaleraldehyde	1390	1	NI	1	R	3	NI	0	0	0	2	2			D	2
Valeraldehyde (all isomers)	731								CAS No		590-86-3					
Jatropha oil	2402	0	NI	(0)	(R)	(2)	NI	(0)	(0)	(0)	(0)	(0)			Fp	2
Jatropha oil	3637								CAS No							
Kaolin slurry	883	Inorg	NI	0	Inorg	0	NI	0	0	0	0	0			S	0
Kaolin slurry	409								CAS No		1332-58-7					
Lactic acid	886	0	NI	0	R	1	NI	0	0	(3)	2	3			D	3
Lactic acid	410								CAS No		50-21-5					
Lactonitrile solution (80% or less)	887	0	NI	0	R	4	NI	3	4	(4)	NI	NI			D	3
Lactonitrile solution (80% or less)	411								CAS No		78-97-7					
Lard (containing less than 10% free fatty acids)	2317	0	NI	0	R	0	NI	0	(0)	(1)	0	1			Fp	2
Lard	3047								CAS No							
Latex, ammonia inhibited	889	0	NI	0	NI	(2)	NI	0	0	(1)	0	1			D	1
Latex, ammonia (1% or less)- inhibited	413								CAS No							
Lauric acid	891	4	NI	4	R	4	1	0	(0)	(2)	1	2			Fp	2
Lauric acid	415								CAS No		143-07-7					
Lauroamidopropyl betaine solution (#)	2479	(4)	(2)	(2)	R	(4)	(1)	(0)	(0)	(3)	(1)	(3)			D	3
	4055								CAS No		4292-10-8					
Lauryl methacrylate	893	0	2	2	R	0	0	0	(0)	(1)	1	1			F	1
Dodecyl methacrylate	300								CAS No		142-90-5					
Lecithin (soybeans)	2146	0	NI	0	R	0	NI	0	0	(0)	0	(0)			SD	0
Lecithin	417								CAS No							
Lignin sulphonic acid, salt solution	34	0	NI	0	(NR)	(0)	NI	0	(0)	(0)	(0)	(0)			D	0
Ligninsulphonic acid, sodium salt solution	419								CAS No							
Linear alkyl (C12-16) propoxyamine ethoxylate	2380	3	0	3	NR	4	NI	1	(1)	(3)	3	(3)			D	3
Alkyl(C12-C16) propoxyamine ethoxylate	3423								CAS No							
Linseed oil (containing less than 4% free fatty acids)	2318	0	NI	0	R	(2)	NI	0	(0)	(1)	0	(1)			Fp	2
Linseed oil	3048								CAS No							

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 40 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Long chain alkaryl polyether (C11-C20) (LOA)	1982	(4)	NI	(4)	NR	3	(1)	0	0	(2)	0	2			Fp	2
Long-chain alkaryl polyether (C11-C20)	421									CAS No						
Long chain alkaryl sulphonic acid (C16-C60) (LOA)	1966	0	NI	0	(NR)	0	NI	0	0	(2)	(1)	2			Fp	2
Long-chain alkaryl sulphonic acid (C16-C60)	424									CAS No						
Long-chain alkylphenate/Phenol sulphide mixture	1754	(0)	NI	(0)	(NR)	0	NI	0	0	(2)	2	2			Fp	2
Long-chain alkylphenate/Phenol sulphide mixture	425									CAS No						
Long chain alkylphenol (C14-C18) (#)	2478	(0)	NI	(0)	NR	(0)	(0)	(0)	(0)	(2)	(2)	(0)			Fp	2
Long-chain alkylphenol (C14-C18)	4029									CAS No						
Long chain alkylphenol (C18-C30) (#)	2476	(0)	NI	(0)	(NR)	(1)	(0)	(0)	(0)	(2)	(2)	(0)			Fp	2
Long-chain alkylphenol (C18-C30)	4040									CAS No						
Long-chain polyetheramine in alkyl(C2-C4)benzenes	1457	NI	NI	NI	NR	2	NI	0	0	(2)	2	2			Fp	2
	422									CAS No						
Lubrizol polyolefin anhydride	1865	0	NI	0	NR	1	NI	0	0	(2)	1	(2)			Fp	2
Polyolefin anhydride	605									CAS No						
L-Lysine solution (50% or less)	2199	0	0	0	R	1	0	0	0	0	1	NI			D	1
L-Lysine solution (60% or less)	2306									CAS No						
Magnesium alkyl (long chain) salicylate (overbased) in mineral oil (LOA)	71	(0)	NI	(0)	NR	(2)	NI	0	0	(1)	(1)	(1)	Ss		S	2
Magnesium long-chain alkyl salicylate (C11+)	429									CAS No						
Magnesium chloride	915	Inorg	0	0	Inorg	1	0	0	0	(0)	0	0			D	0
Magnesium chloride solution	427									CAS No	7786-30-3					
Magnesium hydroxide slurry	916	Inorg	0	0	Inorg	0	NI	0	0	(1)	(0)	1			S	1
Magnesium hydroxide slurry	428									CAS No	1309-42-8					
Magnesium lignosulphonate solutions	2356	(0)	NI	(0)	(NR)	(0)	NI	0	0	(0)	(0)	(0)			D	0
Ligninsulphonic acid, magnesium salt solution	3116									CAS No						
Magnesium long chain alkaryl sulphonate (C11-C50) (LOA)	1967	0	NI	0	NR	0	NI	0	0	(2)	1	2			Fp	2
Magnesium long-chain alkaryl sulphonate (C11-C50)	430									CAS No						
Maleic acid/allyl sulphonic acid copolymer with phosphonate groups, partial sodium salt (aqueous solution)	2412	0	NI	0	NR	0	NI	(0)	(0)	(0)	(0)	(0)			D	0
Maleic acid/allyl sulphonic acid copolymer with phosphonate groups, partial sodium salt (aqueous solution)	3688									CAS No						

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 41 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Maleic anhydride	921	1	NI	1	R	2	0	1	2	(3)	3	3	SsSr		D	3
Maleic anhydride	431								CAS No		108-31-6					
Maleic anhydride - sodium allylsulphonate copolymer (aqueous solution)	2410	0	NI	0	NR	1	NI	0	0	(0)	(0)	0			D	0
Maleic anhydride-sodium allylsulphonate copolymer solution	3686								CAS No							
Maltitol Syrup	2348	0	NI	0	R	0	NI	0	0	(0)	0	0			D	0
Maltitol solution	3078								CAS No							
Mango kernel oil (containing less than 10% free fatty acids)	2305	(0)	NI	(0)	(R)	(0)	NI	(0)	(0)	(0)	(0)	(0)			Fp	2
Mango kernel oil	3035								CAS No							
2-Mercaptobenzothiazol	925	2	1	1	NR	4	2	0	0	(0)	0	0	Ss		S	2
Mercaptobenzothiazol, sodium salt solution	432								CAS No		149-30-4					
2-Mercaptoethanol	2495	0	NI	0	NR	1	NI	2	2	2	2	3	SsT		D	3
	4129								CAS No		60-24-2					
Mesityl oxide	946	1	NI	1	R	(1)	NI	1	0	2	2	2			D	2
Mesityl oxide	433								CAS No		141-79-7					
Metam-sodium (ISO)	202	0	NI	0	NR	4	NI	1	2	(2)	2	1	Ss		D	2
Metam sodium solution	434								CAS No		137-42-8					
Methacrylic acid-alkoxypoly (alkylene oxide) methacrylate co-polymer sodium salt (45% or less solution)	2288	NI	0	0	NR	1	NI	0	(0)	(1)	1	0			D	1
Methacrylic acid - alkoxypoly (alkylene oxide) methacrylate copolymer, sodium salt aqueous solution (45% or less)	2819								CAS No							
Methacrylic acid, inhibited	948	0	NI	0	R	2	0	1	2	2	3	3			D	3
Methacrylic acid	435								CAS No		79-41-4					
Methacrylic resin in 1,2 Dichloroethane soln.	2046	1	1	1	NR	2	0	(1)	(0)	(2)	(1)	(2)	C		SD	3
Methacrylic resin in ethylene dichloride	436								CAS No							
Methacrylonitrile	949	0	NI	0	R	2	0	2	2	3	1	1	Ss	NT	ED	3
Methacrylonitrile	437								CAS No		126-98-7					
Methanol	951	0	NI	0	R	0	0	(2)	(2)	(2)	2	2	T		DE	3
Methyl alcohol	441								CAS No		67-56-1					
(2-Methoxymethylethoxy)propanols	2452	0	NI	0	R	0	(0)	0	0	(0)	0	0			D	0
	3870								CAS No							
Methyl acetate	954	0	NI	0	R	1	NI	0	0	0	1	2			DE	2
Methyl acetate	438								CAS No		79-20-9					

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 42 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Methyl acetoacetate	335	0	NI	0	R	1	NI	0	0	(2)	1	2			D	2
Methyl acetoacetate	439								CAS No		105-45-3					
Methyl acrylate	955	0	NI	0	R	3	NI	1	1	2	2	3	MSs		D	3
Methyl acrylate	440								CAS No		96-33-3					
Methylamine solution 42% or less	957	0	NI	0	R	2	NI	2	(2)	3	3	3	M	NT	DE	3
Methylamine solutions (42% or less)	455								CAS No		74-89-5					
Methyl amyl alcohol	958	1	NI	1	R	1	NI	1	0	2	1	3			FED	3
Methylamyl alcohol	457								CAS No		108-11-2					
Methyl amyl ketone	959	1	NI	1	NI	1	NI	1	0	0	1	1			FED	2
Methyl amyl ketone	442								CAS No		110-43-0					
N-Methyl aniline	961	1	NI	1	(NR)	3	1	1	1	(2)	(1)	1			FD	2
N-Methylaniline	3107								CAS No		100-61-8					
alpha-Methylbenzyl alcohol with acetophenone (15% or less)	2399	1	NI	1	(R)	(1)	NI	(1)	(0)	(3)	(2)	(3)	R		Fp	3
alpha-Methylbenzyl alcohol with acetophenone (15% or less)	3634								CAS No		98-85-1					
2-Methyl-2-butanol	964	1	1	1	(R)	(1)	0	1	1	1	3	2			D	3
tert-Amyl alcohol	685								CAS No		75-85-4					
3-Methyl-1-butanol	965	1	1	1	(R)	1	0	1	0	(2)	2	2			FED	2
Isoamyl alcohol	396								CAS No		123-51-3					
3-Methyl-1-butanol	965	1	1	1	(R)	1	0	1	0	(2)	2	2			FED	2
Amyl alcohol, primary	126								CAS No		123-51-3					
Methyl butenol	967	0	NI	0	R	2	NI	1	0	(2)	2	2			D	2
Methylbutenol	458								CAS No		556-82-1					
Methyl tert-butyl ether	969	1	NI	1	NR	1	0	0	0	0	2	1		T	ED	2
Methyl tert-butyl ether	454								CAS No		1634-04-4					
Methyl butyl ketone	970	1	NI	1	(R)	1	(0)	0	0	0	1	1	RN		FED	3
Methyl butyl ketone	443								CAS No		591-78-6					
Methylbutynol	968	0	NI	0	NR	1	NI	1	1	0	0	2			D	2
2-Methyl-2-hydroxy-3-butyne	52								CAS No		115-19-5					
Methylbutynol	968	0	NI	0	NR	1	NI	1	1	0	0	2			D	2
Methylbutynol	459								CAS No		115-19-5					

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 43 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Methyl butyrate	973	1	NI	1	NI	(2)	NI	0	0	2	2	(2)			ED	2
Methyl butyrate	444								CAS No		623-42-7					
Methyl cyclohexane	976	3	3	3	NR	3	1	0	0	1	1	1	A		E	2
Methylcyclohexane	460								CAS No		108-87-2					
Methyl cyclopentadiene, dimer	977	4	NI	4	(NR)	(3)	NI	0	(0)	(2)	(2)	(2)			F	2
Methylcyclopentadiene dimer	461								CAS No		26472-00-4					
Methyl cyclopentadienyl manganese tricarbonyl (60-70%) in mineral oil	2213	3	NI	3	NR	4	NI	2	3	4	1	1			S	3
Methylcyclopentadienyl manganese tricarbonyl	2692								CAS No							
N-Methyldiethanolamine	1491	0	NI	0	R	2	NI	1	0	(2)	1	2			D	2
Methyl diethanolamine	445								CAS No		105-59-9					
Methylene dithiocyanate	2235	2	NI	2	NR	5	NI	2	0	4	3	3	Ss		NI	3
Methylene bithiocyanate	2693								CAS No		6317-18-6					
2-Methyl-6-ethylaniline	984	2	NI	2	NR	2	NI	1	1	(2)	0	2			FD	2
2-Methyl-6-ethyl aniline	54								CAS No		24549-06-2					
2-Methyl-5-ethylpyridine	986	2	NI	2	R	2	0	1	2	(3)	3	3			FD	3
2-Methyl-5-ethyl pyridine	53								CAS No		104-90-5					
Methyl formate	987	0	NI	0	R	1	NI	1	0	2	0	2			DE	2
Methyl formate	447								CAS No		107-31-3					
N-Methylglucamine, 60% aqueous solution	2048	0	NI	0	R	0	NI	1	0	(3)	0	3			D	3
N-Methylglucamine solution (70% or less)	482								CAS No		6284-40-8					
2-Methylglutaronitrile with 2-Ethylsuccinonitrile (12% or less)	2397	0	NI	0	R	0	NI	2	2	3	0	1			FD	2
2-Methylglutaronitrile with 2-Ethylsuccinonitrile (12% or less)	3632								CAS No		4553-62-2					
Methyl heptyl ketone	988	3	NI	3	R	3	NI	0	0	NI	NI	NI			FED	NI
Methyl heptyl ketone	448								CAS No		821-55-6					
Methyl isobutyl ketone	971	1	NI	1	R	1	0	1	0	2	2	3			FED	3
Methyl isobutyl ketone	449								CAS No		108-10-1					
Methyl methacrylate	995	1	NI	1	R	2	NI	0	0	0	2	2	Ss		ED	2
Methyl methacrylate	450								CAS No		80-62-6					
3-Methyl-3-methoxy butanol	996	1	NI	1	NR	0	NI	0	(0)	(2)	1	(2)			FD	2
3-Methyl-3-methoxybutanol	59								CAS No							

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 44 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3			
3-Methyl-3-methoxybutyl acetate	997	1	NI	1	NR	0	NI	0	(0)	NI	NI	NI			F	NI			
3-Methyl-3-methoxybutyl acetate	60								CAS No										
Methyl naphthalenes	1999	4	NI	4	(NR)	(4)	NI	1	0	(2)	1	1		T	F	2			
Methyl naphthalene (molten)	451								CAS No										
2-Methyl pentane	1000	3	NI	3	NI	4	NI	(0)	(0)	(2)	(2)	(2)			E	2			
2-Methylpentane	2684								CAS No								107-83-5		
2-Methyl-1,3-propanediol	2200	0	0	0	NR	0	0	0	0	(0)	0	0			D	0			
2-Methyl-1,3-propanediol	2213								CAS No										
Methyl propyl ketone	1003	0	NI	0	(R)	0	NI	1	0	(2)	1	2			FED	2			
Methyl propyl ketone	452								CAS No								107-87-9		
2-Methyl pyridine	1005	1	NI	1	R	1	NI	1	2	1	3A	3			D	3			
2-Methylpyridine	55								CAS No								109-06-8		
3-Methylpyridine	1006	1	NI	1	R	1	NI	1	2	2	3	3			D	3			
3-Methylpyridine	61								CAS No								108-99-6		
4-Methylpyridine	1007	1	NI	1	(R)	1	NI	1	2	2	3	3			D	3			
4-Methylpyridine	63								CAS No								108-89-4		
N-Methylpyrrolidone	1008	0	NI	0	R	1	NI	0	0	2	1	2	R		D	3			
N-Methyl-2-pyrrolidone	481								CAS No								872-50-4		
Methyl salicylate	86	2	NI	2	R	2	NI	1	1	(2)	2	1	R		SD	3			
Methyl salicylate	453								CAS No								119-36-8		
alpha-Methylstyrene	1010	3	3	3	NR	3	NI	0	0	1	2	1	M	(T)	FE	3			
alpha-Methylstyrene	107								CAS No								98-83-9		
3-(Methylthio) propionaldehyde	993	0	NI	0	R	3	1	1	1	2	2	3	NSs	T	D	3			
3-(methylthio)propionaldehyde	2368								CAS No								3268-49-3		
Metolachlor (ISO)	113	2	2	2	NR	5	1	1	0	(2)	1	0	Ss		S	2			
N-(2-Methoxy-1-methyl ethyl)-2-ethyl-6-methyl chloroacetanilide	469								CAS No								51218-45-2		
Mixed acid oil	2306	(0)	NI	(0)	(R)	(0)	NI	0	(0)	(1)	(1)	1			Fp	2			
Acid oil mixture from soyabean, corn (maize) and sunflower oil refining	3036								CAS No										
Mixture of dithiophosphate salts in water	2381	1	0	1	NR	2	NI	0	0	(2)	2	2			D	2			
Dialkyl thiophosphates sodium salts solution	3424								CAS No										

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 45 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Molasses	1013	0	NI	0	R	0	NI	0	0	0	0	0			D	0
Molasses	462								CAS No							
Molybdenum polysulphide long chain alkyl dithiocarbamide complex	2344	4	2	2	NR	2	0	0	0	(2)	2	2			Fp	2
Molybdenum polysulphide long chain alkyl dithiocarbamide complex	3108								CAS No							
Mononitrobenzene	1017	1	1	1	R	3	(4)	(2)	2	2	1	1	CRT		SD	3
Nitrobenzene	501								CAS No		98-95-3					
Morpholine	1018	0	0	0	R	2	NI	1	2	2	3	3			D	3
Morpholine	463								CAS No		110-91-8					
Myrcene	1019	4	NI	4	R	4	1	0	0	(2)	2	NI			F	2
Myrcene	465								CAS No		123-35-3					
Naphthalene (molten)	1	3	3	3	NR	4	1	1	(0)	(1)	0	0	T	T	S	2
Naphthalene (molten)	493								CAS No		91-20-3					
Naphthalene, crude (molten) (#)!	2459	NI	(3)	(3)	NR	3	0	0	(0)	(2)	2	2	CMT		Fp	3
Naphthalene crude (molten)	3858								CAS No		85117-10-8					
Naphthalene sulphonic acid condensed with formaldehyde, sodium salt, solution	1020	0	1	1	(NR)	1	NI	0	(0)	(1)	0	1			D	1
Naphthalenesulphonic acid-Formaldehyde copolymer, sodium salt solution	494								CAS No		9084-06-4					
Neodecanoic acid	1025	4	NI	4	NR	2	NI	0	0	(2)	0	2			Fp	2
Neodecanoic acid	496								CAS No		26896-20-8					
Nitric acid (90% or less)	1029	Inorg	NI	0	Inorg	2	NI	(3)	(1)	3	3C	3			D	3
Nitric acid (less than 70%)	499								CAS No		7697-37-2					
Nitric acid (90% or less)	1029	Inorg	NI	0	Inorg	2	NI	(3)	(1)	3	3C	3			D	3
Nitric acid (70% and over)	498								CAS No		7697-37-2					
Nitrilotriacetic acid, trisodium salt	1030	0	NI	0	R	1	0	1	(0)	0	1	1	CMR		D	3
Nitrilotriacetic acid, trisodium salt solution	500								CAS No		5094-31-3					
Nitroethane	1037	0	NI	0	NR	2	NI	1	0	(2)	(0)	(1)			SD	2
Nitroethane	502								CAS No		79-24-3					
Nitroethane (80%)/Nitropropane (20%)	2245	0	1	1	NR	2	NI	1	1	2	0	1			E	2
Nitroethane(80%)/ Nitropropane(20%)	503								CAS No							
Nitroethane, 1-Nitropropane (each 15% or more) mixture	2270	(0)	(1)	(1)	(NR)	(2)	NI	1	1	2	0	1			FED	2
Nitroethane, 1-Nitropropane (each 15% or more) mixture	2212								CAS No							

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 46 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
2-Nitrophenol	1041	1	2	2	R	3	(2)	0	0	(1)	1	1			S	1
o-Nitrophenol (molten)	536								CAS No		88-75-5					
1-Nitropropane	1044	0	1	1	NR	1	NI	1	0	2	0	1		FED		2
1-Nitropropane	2747								CAS No		108-03-2					
1- or 2- Nitropropane	2242	0	1	1	NR	1	NI	2	0	2	0	1	C	FED		3
1- or 2-Nitropropane	20								CAS No							
2-Nitropropane	1045	0	1	1	NR	2	NI	2	0	2	0	0	C	FED		3
2-Nitropropane	2748								CAS No		79-46-9					
Nitropropane (60%) Nitroethane (40%) (mixture)	1046	0	1	1	NR	2	NI	1	0	2	0	1	C	FED		3
Nitropropane (60%)/Nitroethane (40%) mixture	504								CAS No							
o-Nitrotoluene	1049	2	2	2	NR	2	(1)	1	0	(2)	0	1	CMR	S		3
o-Nitrotoluene	2745								CAS No		88-72-2					
p-Nitrotoluene	1051	2	1	1	NR	3	0	1	0	(2)	0	1	R	S		3
p-Nitrotoluene	2746								CAS No		99-99-0					
o- or p-Nitrotoluenes	2241	2	2	2	NR	3	(1)	1	0	(2)	0	1	CMR	S		3
o- or p-Nitrotoluenes	532								CAS No							
Nonane	1054	4	NI	4	R	4	NI	0	0	1	1	1	A	FE		2
Nonane (all isomers)	506								CAS No		111-84-2					
Nonanoic acid	1055	3	NI	3	R	2	NI	0	0	(3)	2	3		F		3
Nonanoic acid (all isomers)	507								CAS No		112-05-0					
Nonene (all isomers)	2222	4	NI	4	NI	3	NI	0	0	0	1	1	A	FE		2
Nonene (all isomers)	508								CAS No							
1-Nonene	1060	4	NI	4	NI	3	NI	0	0	0	1	1	A	FE		2
1-Nonene	2680								CAS No		27215-95-8					
Nonyl acetate	1766	4	NI	4	NI	NI	NI	0	0	NI	NI	NI		F		NI
Nonyl acetate	509								CAS No		143-13-5					
Nonyl methacrylate monomer	1061	5	NI	5	R	3	NI	(0)	(0)	(1)	(1)	(1)		F		1
Nonyl methacrylate monomer	511								CAS No		2696-43-7					
Nonyl phenol	1062	5	4	4	NR	5	3	1	0	(3)	3	3		Fp		3
Nonylphenol	512								CAS No		25154-52-3					

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 47 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Nonyl(C6-C12)phenol poly(4-12)ethoxylate	1063	4	NI	4	NR	3	1	0	0	(2)	2	1			D	2
Alkyl(C7-C11)phenol poly(4-12) ethoxylate	97									CAS No						
Nonyl(C6-C12)phenol poly(4-12)ethoxylate	1063	4	NI	4	NR	3	1	0	0	(2)	2	1			D	2
Nonylphenol poly(4+)ethoxylate	513									CAS No						
Octamethylcyclotetrasiloxane	2398	5	5	5	NR	0	3	0	0	0	0	0			F	1
Octamethylcyclotetrasiloxane	3633									CAS No						
Octane	1072	5	NI	5	(R)	4	NI	(0)	(0)	0	0	0	A		FE	2
Octane (all isomers)	538									CAS No	111-65-9					
Octanoic acid (Caprylic acid)	1074	3	NI	3	R	1	NI	0	0	(3)	3	3			F	3
Octanoic acid (all isomers)	539									CAS No	124-07-2					
1-Octanol	1075	3	NI	3	R	2	0	1	0	(2)	2	2			Fp	2
Octanol (all isomers)	540									CAS No	111-87-5					
1-Octanol	1075	3	NI	3	R	2	0	1	0	(2)	2	2			Fp	2
1-Octanol	2676									CAS No	111-87-5					
Octene (all isomers)	1079	4	NI	4	NR	3	NI	0	0	0	2	1	A		FE	2
Octene (all isomers)	541									CAS No						
Octyl acetate	1080	3	NI	3	R	2	NI	0	0	(1)	1	NI			FD	1
n-Octyl acetate	483									CAS No	112-14-1					
Octyl decyl adipate	1082	0	NI	0	(R)	(0)	(0)	(0)	(0)	(1)	(1)	(1)			Fp	2
Octyl decyl adipate	543									CAS No	110-29-2					
n-Octyl mercaptan	2461	4	3	3	NR	5	NI	1	0	(1)	1	0	Ss		F	3
n-Octyl mercaptan	3742									CAS No						
Olefin/Alkyl ester copolymer (molecular weight 2000+) (LOA)	1965	NI	NI	0	NR	0	NI	0	0	(0)	0	0			Fp	2
Olefin-Alkyl ester copolymer (molecular weight 2000+)	546									CAS No						
Olefin mixture (C7-C9)	2385	5	4	4	NR	4	NI	(0)	0	0	2	1	A		E	2
Olefin mixture (C7-C9) C8 rich, stabilized	3548									CAS No	97593-00-5					
Olefin mixtures (C5-C7)	2243	3	NI	3	R	3	NI	(0)	(0)	(1)	(2)	(1)			E	2
Olefin mixtures (C5-C7)	545									CAS No						
Olefin mixtures (C5-C15)	2321	(5)	NI	(5)	NR	(4)	NI	(0)	(0)	(2)	(2)	(1)	A		FE	2
Olefin mixtures (C5-C15)	544									CAS No						

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 48 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Olefins C13 and above, all isomers (#)	2028	5	NI	5	NR	0	NI	0	0	(1)	(1)	0	A		Fp	3
Olefins (C13+, all isomers)	547									CAS No						
alpha-Olefins (C6-C18),mixture	2030	(5)	NI	(5)	NR	(4)	NI	(0)	(0)	(2)	(2)	(1)	A		FE	2
alpha-Olefins (C6-C18) mixtures	108									CAS No						
alpha-Olefins (C12+), mixture (#)	2516	(5)	(5)	(5)	(R)	(0)	NI	(0)	(0)	(1)	(1)	(0)	A		Fp	3
alpha-Olefins (C12+), mixture	4197									CAS No						
Oleic acid	1089	0	NI	0	R	0	NI	0	1	(2)	1	1			Fp	2
Oleic acid	548									CAS No	112-80-1					
Oleylamine	1862	0	NI	0	NR	4	NI	1	(1)	(3)	3B	3			Fp	3
Oleylamine	550									CAS No						
Olive oil	1090	0	NI	0	R	(2)	NI	(0)	(0)	(1)	1	1			Fp	2
Olive oil	2771									CAS No	8001-25-0					
Orange juice	2375	0	0	0	R	0	0	0	0	(0)	0	0			D	0
Orange juice	3151									CAS No						
Orange juice (not concentrated)	2382	0	0	0	R	0	0	0	0	(0)	0	0			D	0
Orange juice (not concentrated)	3425									CAS No						
Oxatetra-azahydroxyalkanoic acid, substituted with acetic acid / acetoxylethanolamine	2413	1	NI	1	R	1	NI	0	0	0	0	0			D	0
Oxatetra-azahydroxyalkanoic acid, substituted with acetic acid / acetoxylethanolamine	3689									CAS No						
Oxygenated aliphatic hydrocarbon mixture	2266	5	2	(2)	NR	1	NI	0	0	(1)	1	1			FE	2
Oxygenated aliphatic hydrocarbon mixture	2825									CAS No						
Palm acid oil	2307	(0)	NI	(0)	(R)	(0)	NI	0	(0)	(1)	0	1			Fp	2
Palm acid oil	3037									CAS No						
Palm fatty acid distillate	2310	NI	NI	(0)	(R)	(0)	NI	0	(0)	(1)	0	1			Fp	2
Palm fatty acid distillate	3040									CAS No						
Palm kernel fatty acid distillate	2335	(0)	0	0	R	(3)	NI	0	(0)	(2)	1	2			Fp	2
Palm kernel fatty acid distillate	3111									CAS No						
Palm kernel olein (containing less than 5 % free fatty acids)	2308	(0)	NI	(0)	(R)	1	NI	(0)	(0)	(0)	(0)	(0)			Fp	2
Palm kernel olein	3038									CAS No						
Palm kernel stearin (containing less than 5% free fatty acids)	2309	0	(0)	(0)	(R)	0	NI	(0)	(0)	(0)	(0)	(0)			Fp	2
Palm kernel stearin	3039									CAS No						

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 49 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3		
Palm Mid Fraction	2363	(0)	NI	(0)	(R)	(0)	NI	0	0	(0)	(0)	(0)			Fp	2		
Palm mid-fraction	3126								CAS No									
Palm nut oil	1094	0	NI	0	R	1	NI	(0)	(0)	(1)	(0)	(1)			Fp	2		
Palm kernel oil	2766								CAS No									
Palm nut oil fatty acid	1095	0	NI	0	R	(3)	NI	0	0	(2)	1	2			Fp	2		
Palm kernel acid oil	553								CAS No									
Palm oil (containing less than 15% free fatty acids)	2249	0	NI	0	R	0	NI	0	(0)	(0)	0	0			Fp	2		
Palm oil	2764								CAS No									
Palm oil (containing more than 15% and less than 30% free fatty acids)	2364	0	NI	0	R	0	NI	0	0	(2)	(2)	(2)			Fp	2		
Non-edible industrial grade palm oil	3127								CAS No									
Palm oil fatty acid methyl ester	1097	0	NI	0	R	0	NI	0	0	0	0	1			Fp	2		
Palm oil fatty acid methyl ester	554								CAS No									
Palm olein	2250	0	NI	0	R	0	NI	0	(0)	(0)	0	0			Fp	2		
Palm olein	2765								CAS No									
Palm stearin	2251	0	NI	0	R	0	NI	0	(0)	(0)	0	0			Fp	2		
Palm stearin	555								CAS No									
Paraffin wax, highly-refined	1086	(5)	NI	(5)	(NR)	0	(0)	(0)	(0)	(0)	(0)	(0)			Fp	2		
Paraffin wax, highly-refined	556								CAS No								8002-74-2	
Paraffin wax, semi-refined	2244	(5)	NI	(5)	NR	0	(0)	(0)	(0)	(0)	(0)	(0)	T		Fp	3		
Paraffin wax, semi-refined	565								CAS No									
Paraldehyde	1098	0	0	0	NR	0	NI	1	0	0	1	3			D	3		
Paraldehyde	557								CAS No								123-63-7	
Pentachloroethane	1099	3	2	2	NI	3	1	1	(1)	1	(1)	(1)	CT		S	3		
Pentachloroethane	558								CAS No								76-01-7	
1,3-Pentadiene	1102	2	NI	2	NR	2	NI	0	0	0	1	(2)			E	2		
1,3-Pentadiene	14								CAS No								504-60-9	
1,3-Pentadiene (greater than 50%), cyclopentene and isomers, mixtures.	2390	NI	NI	(3)	(NR)	(3)	NI	(2)	(1)	(3)	(2)	(2)	CMR		E	3		
1,3-Pentadiene (greater than 50%), cyclopentene and isomers, mixtures	3560								CAS No									
Pentaethylene hexamine	1103	0	NI	0	NI	4	NI	1	(2)	(3)	3	(3)	Ss		D	3		
Pentaethylenehexamine	560								CAS No								4067-16-7	

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 50 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Pentane	1105	3	NI	3	R	3	NI	0	0	0	1	1			E	2
Pentane (all isomers)	561								CAS No		109-66-0					
1,5-Pentanedial solution, (5-50%) (#)	1107	0	NI	0	R	3	0	1	0	3	3	3	SsSr		D	3
Glutaraldehyde solutions (50% or less)	362								CAS No		111-30-8					
Pentanoic acid	1109	1	NI	1	NI	2	NI	1	2	(3)	3	3			FD	3
Pentanoic acid	562								CAS No		109-52-4					
Pentanoic acid (64%)/2-methyl butyric acid (36%) mixture	2144	(1)	NI	(1)	NI	(2)	NI	(1)	(2)	(3)	3	(3)			FD	3
n-Pentanoic acid (64%)/2-Methyl butyric acid (36%) mixture	2211								CAS No							
1-Pentanol	1110	1	1	1	(R)	1	0	1	0	(3)	2	3			FED	3
n-Amyl alcohol	473								CAS No		71-41-0					
2-Pentanol	1111	1	1	1	R	1	0	0	(0)	(2)	2	2			D	2
sec-Amyl alcohol	637								CAS No		6032-29-7					
Pentasodium triphosphate (*)	2418	Inorg	0	0	Inorg	1	NI	NI	NI	NI	NI	NI			NI	NI
	3694								CAS No							
Pentene (all isomers)	1992	2	NI	2	NI	(2)	NI	(0)	(0)	(0)	(0)	(1)			E	2
Pentene (all isomers)	563								CAS No							
1-Pentene	1114	2	NI	2	NI	(2)	NI	(0)	(0)	0	(0)	(1)			E	2
1-Pentene	2679								CAS No		109-67-1					
2-Pentene	1115	2	NI	2	NI	2	NI	(0)	(0)	(0)	(0)	(1)			E	2
2-Pentene	2678								CAS No		109-68-2					
Phenol	1124	1	2	2	R	3	0	2	2	(3)	3	3		NT	S	3
Phenol	566								CAS No		108-95-2					
Phenylxylylethane	1135	5	4	4	NR	(2)	NI	1	0	(1)	(0)	0			F	1
1-Phenyl-1-xylyl ethane	23								CAS No		40766-31-2					
Phosphate esters, alkyl(C12-C14)amine (LOA)	1854	2	NI	2	NR	3	NI	0	(0)	(2)	1	2			FD	2
Phosphate esters, alkyl (C12-C14) amine	1345								CAS No							
[[[(phosphonomethyl)imino]bis[ethylenenitrilobis(methylene)]]tetrakisphosphonic acid, ammonium salt solution (60% or less)	2509	0	NI	0	NR	2	(0)	(0)	(0)	(1)	(1)	(1)			D	1
[[[(Phosphonomethyl)imino]bis[ethylenenitrilobis(methylene)]]tetrakisphosphonic acid, ammonium salt solution (60% or less)	4077								CAS No		70714-66-8					

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 51 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Phosphoric acid	1138	0	NI	0	Inorg	1	NI	1	1	3	3	3			D	3
Phosphoric acid	567								CAS No		7664-38-2					
Phosphorus (elemental yellow)	1139	Inorg	(3)	(3)	Inorg	6	4	0	0	0	2	1			S	2
Phosphorus, yellow or white	568								CAS No		7732-14-0					
Phthalic anhydride (molten)	1146	1	NI	1	R	2	0	1	0	(3)	1	3	SsSr		S	3
Phthalic anhydride (molten)	569								CAS No		85-44-9					
alpha-Pinene	40	4	NI	4	R	4	NI	0	0	0	1	(1)	Ss	T	F	3
alpha-Pinene	109								CAS No		80-56-8					
beta-Pinene	41	4	NI	4	(R)	4	NI	0	0	0	1	(1)	Ss	NT	F	3
beta-Pinene	141								CAS No		1330-16-1					
Pine oil	1148	4	NI	4	NR	4	NI	0	0	(1)	(1)	(1)	Ss	(T)	Fp	3
Pine oil	570								CAS No		8002-09-3					
Piperazine, 68% Aqueous	2433	0	NI	0	NR	2	NI	0	0	2	3A	3	SsSrN		SD	3
Piperazine, 68% solution	3748								CAS No		110-85-0					
Pol (2-8) alkylene (C2-C3) glycols/ Polyalkylene (C2-C10) glycols monoalkyl ethers and their borate esters	2358	(1)	NI	(1)	(R)	(1)	(0)	0	0	0	2	2			D	2
Brake fluid base mix: Poly(2-8)alkylene (C2-C3) glycols/Polyalkylene (C2-C10) glycols monoalkyl (C1-C4) ethers and their borate esters	144								CAS No							
Polyacrylic acid (40% solution)	2302	(2)	NI	(2)	NR	1	NI	0	0	(1)	1	1			D	1
Polyacrylic acid solution (40% or less)	2709								CAS No							
Polyalkene sulphonic acid (C16-C18), sodium salt	2527	(3)	(2)	(3)	(R)	(4)	NI	(1)	(0)	(2)	(2)	(2)			D	2
Polyalkene sulphonic acid (C16-C18), sodium salt	4236								CAS No							
Polyalkene sulphonic acid (C20-C28), sodium salt (#)	2481	(5)	(4)	(4)	(NR)	1	0	(1)	(0)	(2)	(2)	(2)			Fp	2
Polyalkene sulphonic acid (C20-C28), sodium salt	4057								CAS No							
Poly(C18-C22)alkyl acrylate in xylene	1151	(3)	NI	(3)	NR	2	NI	0	0	(2)	2	1			Fp	2
Polyalkyl (C18-C22) acrylate in xylene	580								CAS No							
Polyalkylalkenaminesuccinimide, molybdenum oxysulphide	2379	NI	0	0	NR	0	NI	0	0	(0)	0	0			Fp	2
Polyalkylalkenaminesuccinimide, molybdenum oxysulphide	3422								CAS No							
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	1152	1	NI	1	R	1	0	0	0	0	2	2			D	2
Poly(2-8)alkylene glycol monoalkyl(C1-C6) ether	576								CAS No							

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 52 of 69

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

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 53 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Polyethylene glycol sorbitol hexaoleate	2533	0	NI	0	R	2	NI	(0)	(0)	(0)	(0)	(0)			Fp	2
Polyethylene glycol sorbitol hexaoleate	4242	CAS No														
Polyethylene polyamines	2367	0	NI	0	NR	3	0	1	0	(3)	2	(3)	Ss		D	3
Polyethylene polyamines	3131	CAS No														
Polyferric sulphate solution	338	Inorg	0	0	Inorg	(2)	NI	1	(1)	(3)	3	(3)			D	3
Polyferric sulphate solution	592	CAS No														
Polyglycerine, sodium salt, solution	1874	0	NI	0	R	0	NI	0	0	(3)	(2)	3			D	3
Polyglycerin, sodium salt solution (containing less than 3% sodium hydroxide)	593	CAS No														
Polyglycerol	1511	NI	NI	NI	NI	NI	NI	0	(0)	(0)	(0)	(0)			D	0
Polyglycerol	594	CAS No														
Poly(iminoethylene)-graft-N-poly(ethyleneoxy) solution (90% or less)	2287	0	0	0	NR	0	NI	0	0	(1)	0	1			D	1
Poly(iminoethylene)-graft-N-poly(ethyleneoxy) solution (90% or less)	2537	CAS No														
Polyisobutenamine in aliphatic (C10-C14) solvent	2192	0	0	0	NR	2	NI	0	(0)	(2)	2	1			FED	2
Polyisobutenamine in aliphatic (C10-C14) solvent	2374	CAS No														
(Polyisobutene) amino products in aliphatic hydrocarbons	2455	0	NI	(5)	NR	2	NI	0	0	(1)	1	0	A		Fp	3
(Polyisobutene) amino products in aliphatic hydrocarbons	3811	CAS No														
Polyisobutenyl anhydride adduct	2127	0	NI	0	NR	0	NI	0	0	(1)	0	1			FD	1
Polyisobutenyl anhydride adduct	2256	CAS No														
Poly(4+)isobutylene	2264	0	NI	0	NR	0	NI	(0)	(0)	(0)	(0)	(0)			Fp	2
Polyisobutylene (MW≤224)	578	CAS No														
Polymethylene polyphenyl isocyanate	1153	NI	(2)	(2)	NR	0	0	0	0	(2)	2	2	SsSr		S	2
Polymethylene polyphenyl isocyanate	595	CAS No 9016-87-9														
Polyolefin acid, potassium salt	1895	NI	NI	NI	NR	0	NI	0	0	(0)	0	0			NI	0
Potassium salt of polyolefin acid	2199	CAS No														
Polyolefinamide alkene(C16+)amine (LOA)	2104	5	NI	5	NR	0	NI	0	0	(1)	1	(1)			Fp	2
Polyolefin amide alkeneamine (C17+)	597	CAS No														
Polyolefin amide alkeneamine (C28+) (LOA)	1971	0	NI	0	NR	0	NI	0	0	(0)	1	(1)			NI	1
Polyolefin amide alkeneamine (C28+)	598	CAS No														
Polyolefin amide alkeneamine borate (C28-C250) (LOA)	1970	0	NI	0	NR	0	NI	0	0	(0)	0	(0)			Fp	2
Polyolefin amide alkeneamine borate (C28-C250)	600	CAS No														

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 54 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3		
Polyolefin amide alkeneamine/molybden oxysulphide mi	2256	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI			NI	NI		
Polyolefin amide alkeneamine/molybdenum oxysulphide mixture	603								CAS No									
Polyolefin amide alkylene amine polyol	1989	0	2	2	NR	0	NI	0	0	(0)	0	0			Fp	3		
Polyolefin amide alkeneamine polyol	602								CAS No									
Poly (17+) olefin amine	2049	0	NI	0	NR	2	NI	0	(0)	(1)	(1)	(1)			Fp	2		
Poly (17+) olefin amine	571								CAS No								98761-78-5	
Polyolefinamine (C28-C250) (LOA)	2107	0	NI	0	NR	2	NI	0	(0)	(2)	2	(1)			Fp	2		
Polyolefinamine in alkyl (C2-C4) benzenes	610								CAS No									
Polyolefinamine (C28-C250) (LOA)	2107	0	NI	0	NR	2	NI	0	(0)	(2)	2	(1)			Fp	2		
Polyolefinamine in aromatic solvent	611								CAS No									
Polyolefinamine (C28-C250) (LOA)	2107	0	NI	0	NR	2	NI	0	(0)	(2)	2	(1)			Fp	2		
Polyolefinamine (C28-C250)	609								CAS No									
Polyolefin aminoester salt	2095	0	NI	0	NR	1	NI	0	0	(1)	1	(1)			Fp	2		
Polyolefin aminoester salts (molecular weight 2000+)	604								CAS No									
Polyolefin ester (C28-C250) (LOA)	1969	0	NI	0	NR	0	NI	0	0	(0)	0	0			Fp	2		
Polyolefin ester (C28-C250)	606								CAS No									
Polyolefin (molecular weight 300+) (LOA)	1968	0	NI	0	NR	0	NI	0	0	0	0	0			Fp	2		
Polyolefin (molecular weight 300+)	596								CAS No									
Polyolefin phenolic amine (C28-C250) (LOA)	1980	0	NI	0	NI	0	NI	0	0	(1)	(1)	(1)			Fp	2		
Polyolefin phenolic amine (C28-C250)	607								CAS No									
Polyolefin phosphoro sulphide - barium derivative (C28-C250) (LOA)	1976	0	NI	0	NI	2	NI	0	(0)	(0)	(0)	(0)			S	0		
Polyolefin phosphorosulphide, barium derivative (C28-C250)	608								CAS No									
Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy-, phosphate	2506	(4)	(3)	(3)	NR	3	(1)	(1)	(1)	(3)	(2)	(3)			S	3		
Poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy-, phosphate	4158								CAS No								51811-79-1	
Polyoxyethylene sorbitan monooleate	1442	3	(2)	3	R	2	0	0	(0)	(0)	0	0			D	0		
Poly(20)oxyethylene sorbitan monooleate	577								CAS No								9005-65-6	
Polyoxypropylene diamine	2352	1	NI	1	NR	1	NI	0	0	(3)	3	3			D	3		
	3112								CAS No									
Polypropylene	1512	0	NI	0	NR	(0)	NI	(0)	(0)	(0)	(0)	(0)			F	1		
Poly(5+)propylene	579								CAS No								9003-07-0	

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 55 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Polypropylene glycol	1159	0	NI	0	(NR)	1	NI	1	0	(1)	1	1			D	1
Polypropylene glycol	612								CAS No		25322-69-4					
Polysiloxane	1161	NI	4	4	NI	2	NI	0	(0)	(0)	0	0			F	1
Dimethylpolysiloxane	275								CAS No							
Polysiloxane	1161	NI	4	4	NI	2	NI	0	(0)	(0)	0	0			F	1
Polysiloxane	613								CAS No							
Poly (tetramethylene) ether glycol (mw 600-3000)	2147	2	NI	2	NR	3	NI	0	0	(0)	0	(0)			FD	0
Poly(tetramethylene ether) glycol (mw 600-3000)	2540								CAS No							
Potassium carbonate solution	2465	Inorg	0	0	Inorg	2	NI	0	0	(0)	2	2			D	2
Potassium carbonate solution	3928								CAS No							
Potassium chloride solution	1513	0	0	0	Inorg	1	0	0	(0)	(0)	0	0			D	0
Potassium chloride solution	614								CAS No		7447-40-7					
Potassium chloride solution (less than 26%)	2345	Inorg	0	0	Inorg	0	0	0	(0)	(0)	0	0			D	0
Potassium chloride solution (less than 26%)	3109								CAS No							
Potassium formate solution (75% or more)	2121	0	NI	0	R	0	NI	(0)	(0)	(2)	2	2			D	2
Potassium formate solutions	615								CAS No		590-29-4					
Potassium hydroxide (sol.)	1171	Inorg	0	0	Inorg	2	NI	2	(2)	(3)	3C	3			D	3
Potassium hydroxide solution	616								CAS No		1310-58-3					
Potassium iodide	2484	Inorg	(0)	(0)	Inorg	1	0	0	0	(0)	0	0	T		D	2
Potassium iodide	4060								CAS No		7681-11-0					
Potassium oleate	1497	3	NI	3	R	4	NI	(0)	(0)	(1)	1	1			FD	1
Potassium oleate	617								CAS No		143-18-0					
Potassium thiosulphate solution (50% or less)	2152	Inorg	0	0	Inorg	2	NI	0	0	(2)	2	(2)			D	2
Potassium thiosulphate (50% or less)	2335								CAS No							
Propanol	1180	0	NI	0	R	0	NI	1	0	0	1	2	R		D	3
n-Propyl alcohol	488								CAS No		71-23-8					
Propanolamine	1183	0	NI	0	R	2	NI	0	1	(3)	3	3			D	3
n-Propanolamine	485								CAS No		156-87-6					
2-Propene-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer (aqueous solution)	2420	0	NI	0	R	2	0	0	(0)	(0)	0	(0)			D	0
2-Propene-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, homopolymer	3696								CAS No							

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 56 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
2-Propenoic acid polymer with 4-(1,1-dimethylethyl)phenol, formaldehyde, 2,5-furandione, 2-methyloxirane and oxirane (65% in naphtha/xylene)	2491	(5)	NI	(5)	NR	2	NI	0	0	(0)	(0)	0	A		Fp	3
2-Propenoic acid polymer with 4-(1,1-dimethylethyl)phenol, formaldehyde, 2,5-furandione, 2-methyloxirane and oxirane (65% in naphtha/xylene)	4125									CAS No			178603-70-8			
2-Propenoic acid polymer with furandione (65% in 2-butoxyethanol)	2435	0	NI	0	NR	2	0	1	0	0	2	2			Fp	2
2-Propenoic acid polymer with furandione (65% in 2-butoxyethanol)	3750									CAS No						
beta-Propiolactone	1184	0	NI	0	R	(2)	NI	2	(2)	4	3B	3	CM		D	3
beta-Propiolactone	142									CAS No			57-57-8			
Propionaldehyde	1185	0	NI	0	R	2	NI	1	0	1	2	2			DE	2
Propionaldehyde	619									CAS No			123-38-6			
Propionic acid	1186	0	NI	0	R	2	NI	0	0	(3)	3B	3			D	3
Propionic acid	620									CAS No			79-09-4			
Propionic anhydride	1187	0	NI	0	R	2	NI	0	0	(3)	2	3			FD	3
Propionic anhydride	621									CAS No			123-62-6			
Propionitrile	1188	0	NI	0	NI	0	NI	3	3	4	1	2	R		D	3
Propionitrile	622									CAS No			107-12-0			
Propyl acetate	1191	1	NI	1	R	2	NI	0	0	0	1	1			ED	1
n-Propyl acetate	487									CAS No			109-60-4			
Propylamine	1194	0	NI	0	NI	1	NI	2	2	3	3	3			DE	3
n-Propylamine	490									CAS No			107-10-8			
Propyl benzene	1196	NI	NI	NI	NI	3	NI	NI	NI	NI	NI	NI		(T)	FE	NI
Propylbenzene	2686									CAS No			103-65-1			
Propyl chloride	1198	2	NI	2	NI	1	NI	0	NI	NI	NI	NI			FED	2
n-Propyl chloride	489									CAS No			540-54-5			
Propylene carbonate	2056	0	NI	0	R	0	NI	0	0	(3)	2	3			D	3
Propylene carbonate	624									CAS No			108-32-7			
Propylene dimer	1201	3	NI	3	R	3	NI	NI	NI	NI	NI	NI			E	2
Propylene dimer	625									CAS No						
1,2-Propylene glycol	1202	0	NI	0	R	0	0	0	0	0	0	0			D	0
Propylene glycol	626									CAS No			57-55-6			

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 57 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
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								CAS No		108-65-6					
Propylene glycol monoalkyl ether	1958	0	NI	0	NR	0	NI	0	1	0	2	3			D	3
Propylene glycol monoalkyl ether	628								CAS No							
Propylene glycol phenyl ether	2057	1	NI	1	NI	1	NI	0	0	(1)	(1)	(1)			SD	1
Propylene glycol phenyl ether	629								CAS No		4169-04-4					
Propylene oxide	76	0	NI	0	R	2	NI	1	2	2	2	3	CM		DE	3
Propylene oxide	630								CAS No		75-56-9					
Propylene oxide/Ethylene oxide mixture	78	0	NI	0	R	1	NI	1	1	3	3	3	CMR		DE	3
Ethylene oxide/Propylene oxide mixture with an ethylene oxide content of not more than 30% by mass	341								CAS No							
Propylene tetramer	2255	NI	4	4	NR	(4)	NI	(0)	(0)	(1)	(1)	(1)			F	1
Propylene tetramer	631								CAS No		6842-15-5					
Propylene trimer	1207	5	4	4	NR	3	2	(0)	(0)	(1)	(1)	(1)			FE	2
Propylene trimer	632								CAS No		13987-01-4					
Pyridine	1213	0	NI	0	R	3	0	1	1	2	1	3		NT	D	3
Pyridine	634								CAS No		110-86-1					
Pyridine bases	2131	1	NI	1	R	2	NI	2	1	(3)	3B	3			FED	3
Paraldehyde-ammonia reaction product	1989								CAS No							
Pyridinium, 1-(phenylmethyl)-, ethyl methyl derivs., chlorides	2507	3	NI	3	NR	4	2	NI	NI	NI	(3B)	(3)			D	3
Pyridinium, 1-(phenylmethyl)-, ethyl methyl derivs., chlorides	4159								CAS No		68909-18-2					
Pyrolysis gasoline	2271	(4)	(3)	(3)	(R)	(3)	(1)	1	0	(2)	2	2	TCM		FE	3
Pyrolysis gasoline (containing benzene)	1990								CAS No							
Quaternary ammonium compounds, benzyl-C12-14 (even-numbered)-alkyldimethyl, chlorides solution	2494	3	NI	3	NR	4	NI	1	0	(3)	3B	3			D	3
	4128								CAS No		68424-85-1					
Rapeseed oil (high erucic acid; containing less than 4% free fatty acids)	2315	0	NI	0	R	(2)	NI	(0)	(0)	(0)	(1)	(1)			Fp	2
Rapeseed oil	3045								CAS No							
Rapeseed oil (Low erucic acid containing less than 4% free fatty acids)	2296	0	NI	0	R	(2)	NI	0	0	0	(1)	(1)			Fp	2
Rapeseed oil (low erucic acid containing less than 4% free fatty acids)	2956								CAS No							
Rape seed oil fatty acid, methyl ester	2209	0	0	0	R	0	NI	0	(0)	(1)	1	1			Fp	2
Rape seed oil fatty acid methyl esters	2576								CAS No							

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 58 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Rice bran oil (containing less than 15% of free fatty acids)	2312	(0)	NI	(0)	(R)	(0)	NI	0	(0)	(1)	0	1			Fp	2
Rice bran oil	3043								CAS No							
Rosin	1219	3	NI	3	NR	3	NI	0	0	2	(1)	1	Ss		S	2
Rosin	635								CAS No		8050-09-7					
Rosin soap (disproportionated solution)	1220	3	NI	3	NR	3	NI	0	NI	NI	NI	NI			S	NI
Rosin soap (disproportionated) solution	636								CAS No							
Safflower oil (containing less than 5% free fatty acids)	1222	(0)	NI	(0)	(R)	(0)	NI	(0)	(0)	(1)	1	1			Fp	2
Safflower oil	3041								CAS No		8001-23-8					
Saturated and unsaturated alkyl (C10-C20) phosphite (LOA)	2108	0	NI	0	R	1	NI	0	0	(0)	0	0			Fp	2
Alkyl (C10-C20, saturated and unsaturated) phosphite	96								CAS No							
Shea butter (containing less than 15% free fatty acids)	2311	(0)	NI	(0)	NR	(0)	NI	(0)	(0)	(1)	(0)	(1)			Fp	2
Shea butter	3042								CAS No							
Silica slurry	1514	Inorg	0	0	Inorg	0	0	(0)	(0)	0	(0)	(0)			S	0
Microsilica slurry	2507								CAS No		7631-86-9					
Sodium acetate	1498	0	NI	0	R	0	NI	0	0	0	1	1			D	1
Sodium acetate solutions	639								CAS No		127-09-3					
Sodium aluminate (solution)	1234	Inorg	0	0	Inorg	3	1	(0)	(0)	(3)	(3)	(3)			D	3
Sodium aluminate solution	641								CAS No		11138-49-1					
Sodium aluminosilicate slurry	1235	Inorg	0	0	Inorg	1	0	0	0	0	1	1			S	1
Sodium aluminosilicate slurry	643								CAS No		1344-00-9					
Sodium benzoate	1475	0	NI	0	R	1	NI	0	(0)	(1)	0	1			D	1
Sodium benzoate	644								CAS No		532-32-1					
Sodium bicarbonate solution (less than 10%)	2386	0	NI	0	Inorg	0	0	0	0	(0)	0	0			D	0
Sodium bicarbonate solution (less than 10%)	3558								CAS No		144-55-8					
Sodium borohydride/sodium hydroxide mixture (soln.)	1239	Inorg	0	0	Inorg	2	NI	(2)	(1)	(3)	(3)	(3)			D	3
Sodium borohydride (15% or less)/Sodium hydroxide solution	645								CAS No							
Sodium bromide solution (less than 50%)	2387	Inorg	NI	0	Inorg	0	0	0	0	(1)	0	1	R		D	3
Sodium bromide solution (less than 50%) (*)	3410								CAS No		7647-15-6					
Sodium carbonate	1243	Inorg	0	0	Inorg	1	NI	0	0	2	1	2			SD	2
Sodium carbonate solution	646								CAS No		497-19-8					

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 59 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Sodium chlorate solid and solutions (50% or less)	1244	Inorg	0	0	Inorg	1	NI	1	0	(2)	1	1			D	2
Sodium chlorate solution (50% or less)	647								CAS No		7775-09-9					
Sodium chloride solution	2521	Inorg	0	0	Inorg	0	0	0	0	0	1	2			D	0
Sodium chloride solution	4229								CAS No							
Sodium dichromate solution	487	Inorg	0	0	Inorg	4	1	2	2	4	2	3	CMSsSr		D	3
Sodium dichromate solution (70% or less)	649								CAS No		10588-01-9					
Sodium dodecylpoly(oxyethylene) sulphate solution	2531	(3)	NI	(3)	R	3	NI	(0)	(0)	(3)	(2)	(3)			D	3
Sodium dodecylpoly(oxyethylene) sulphate solution	4240								CAS No							
Sodium dodecyl sulphate (*)	2451	0	NI	0	R	3	1	NI	NI	NI	NI	NI			NI	NI
	3869								CAS No							
Sodium hydrogen sulphide/Ammonium sulphide(mixture)	1253	Inorg	0	0	Inorg	3	NI	(2)	(2)	(3)	(3)	(3)			D	3
Sodium hydrosulphide/Ammonium sulphide solution	653								CAS No							
Sodium hydrogen sulphide (6% or less)/sodium carbonate (3% or less)	2262	0	NI	0	Inorg	1	NI	(0)	(0)	(1)	(1)	(1)			D	1
Sodium hydrogen sulphide (6% or less)/Sodium carbonate (3% or less) solution	650								CAS No							
Sodium hydrogen sulphide,solutions	1252	Inorg	0	0	Inorg	1	NI	2	2	(3)	(3)	3			D	3
Sodium hydrosulphide solution (45% or less)	652								CAS No		16721-80-5					
Sodium hydrogen sulphite,solutions	1251	Inorg	0	0	Inorg	1	NI	0	(0)	(0)	0	0			D	0
Sodium hydrogen sulphite solution (45% or less)	651								CAS No		7631-90-5					
Sodium hydroxide (30% or less)/Sodium aluminate (25% or less) solution (#)	2486	Inorg	(0)	(0)	Inorg	3	1	0	(0)	(3)	3	(3)			D	3
	3914								CAS No							
Sodium hydroxide solution (#)	1254	Inorg	0	0	Inorg	2	NI	1	1	3	3C	3			D	3
Sodium hydroxide solution	654								CAS No		1310-73-2					
Sodium hypochlorite solutions containing 20% and less but more than 2% NaOCl	1256	Inorg	0	0	Inorg	(4)	(1)	0	0	1	3	3			D	3
Sodium hypochlorite solution (15% or less)	2785								CAS No		7681-52-9					
Sodium hypochlorite solutions containing more than 20% NaOCl	1255	Inorg	0	0	Inorg	5	2	0	0	1	3	3			D	3
Sodium hypochlorite solution (Full strength solution)	655								CAS No		7681-52-9					
Sodium methylate (**)	2443	NI	NI	(0)	(R)	(2)	NI	NI	NI	NI	NI	NI	T		DE	NI
Sodium methylate	3822								CAS No							
Sodium Methylate (21-30% in Methanol)	2427	0	NI	0	R	1	NI	2	(2)	(3)	3	3	T		D	3
Sodium methylate 21-30% in methanol	3608								CAS No							

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 60 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Sodium nitrate	1259	Inorg	0	0	Inorg	0	NI	(0)	(0)	(0)	(1)	(1)			SD	1
Sodium nitrate	656								CAS No							
Sodium nitrite	340	Inorg	0	0	Inorg	3	0	2	(2)	2	0	1			SD	2
Sodium nitrite solution	658								CAS No							
Sodium oxalate solution (#)	2518	0	(1)	(1)	R	2	1	1	0	(2)	(2)	2			D	2
Sodium oxalate solution	4199								CAS No							
Sodium perborate monohydrate	2284	Inorg	NI	NI	Inorg	3	NI	1	0	(3)	2	3			NI	3
Sodium perborate monohydrate	2948								CAS No							
Sodium petroleum sulphonate	1860	0	NI	0	(NR)	2	NI	0	(0)	(2)	1	2			S	2
Sodium petroleum sulphonate	660								CAS No							
Sodium polyacrylate solution	1487	0	NI	0	NR	1	0	0	(0)	(1)	1	1			D	1
Sodium poly(4+)acrylate solutions	826								CAS No							
Sodium silicate (solution)	1262	Inorg	0	0	Inorg	2	NI	1	0	(3)	3	3			D	3
Sodium silicate solution	661								CAS No							
Sodium sulphate (solution)	1499	Inorg	0	0	Inorg	0	0	0	(0)	(1)	1	1			SD	1
Sodium sulphate solutions	662								CAS No							
Sodium sulphide (solution)	1263	Inorg	0	0	Inorg	3	NI	1	1	(3)	3A	3			D	3
Sodium sulphide solution (15% or less)	663								CAS No							
Sodium sulphite (solution)	9	Inorg	0	0	Inorg	2	NI	0	(0)	(1)	0	1			D	1
Sodium sulphite solution (25% or less)	664								CAS No							
Sodium tartrate succinate/Sodium tartrate disuccinate mixtures	1771	NI	1	1	NI	1	NI	0	NI	NI	NI	NI			D	NI
Sodium tartrates/Sodium succinates solution	665								CAS No							
Sodium thiocyanate	1264	Inorg	0	0	Inorg	2	NI	1	(0)	(1)	0	0			D	1
Sodium thiocyanate solution (56% or less)	667								CAS No							
Sorbitan monooleate	2215	(5)	NI	(5)	R	3	NI	0	NI	NI	0	0			Fp	2
Sorbitan monooleate	2408								CAS No							
Sorbitan sesquioleate	2532	0	NI	0	NR	0	1	0	NI	(2)	1	0			Fp	2
Sorbitan sesquioleate	4241								CAS No							
Sorbitol	1265	0	NI	0	R	0	NI	0	(0)	(0)	(0)	(0)			D	0
Sorbitol solution	668								CAS No							

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 61 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3		
Sorbitol, propoxylated	2529	1	NI	1	NR	1	0	0	0	(0)	0	0			D	0		
Sorbitol, propoxylated	4238								CAS No									
Soyabean oil (containing less than 4% free fatty acids)	2320	0	NI	0	R	0	NI	0	(0)	(1)	(0)	1			Fp	2		
Soyabean oil	3050								CAS No									
Soybean oil fatty acids, methyl esters	2431	0	NI	0	R	2	NI	0	0	0	0	0			Fp	2		
Soybean Oil Fatty Acid Methyl Ester	3737								CAS No									
Styrene (monomer)	1273	3	(2)	3	R	3	NI	1	0	2	2	2	CM		FE	3		
Styrene monomer	669								CAS No								100-42-5	
Styrene butadiene rubber latex	1274	0	NI	0	NR	0	NI	0	0	(1)	0	1			D	1		
Latex: Carboxylated styrene-Butadiene copolymer; Styrene-Butadiene rubber	414								CAS No									
Sulpho hydrocarbon (C3-C88) (LOA)	1972	4	NI	4	NR	2	NI	0	0	0	0	0			Fp	2		
Sulphohydrocarbon (C3-C88)	672								CAS No									
Sulpholane	1277	0	1	1	NR	2	0	1	0	0	1	2			SD	2		
Sulpholane	673								CAS No								126-33-0	
Sulphonated polyacrylate solution	1760	NI	0	0	NI	0	NI	(0)	(0)	(0)	(0)	(0)			D	0		
Sulphonated polyacrylate solution	674								CAS No									
Sulphur	906	Inorg	0	0	Inorg	0	NI	0	0	(1)	1	1			S	1		
Sulphur (molten)	675								CAS No								7704-34-9	
Sulphuric acid	1280	0	NI	0	Inorg	2	NI	0	(0)	3	3C	3	C		D	3		
Oleum	549								CAS No								7664-93-9	
Sulphuric acid	1280	0	NI	0	Inorg	2	NI	0	(0)	3	3C	3	C		D	3		
Sulphuric acid	676								CAS No								7664-93-9	
Sulphuric acid	1280	0	NI	0	Inorg	2	NI	0	(0)	3	3C	3	C		D	3		
Sulphuric acid, spent	677								CAS No								7664-93-9	
Sulphurized fat(C14-C20) (LOA)	1853	0	NI	0	NR	1	NI	0	(0)	(1)	0	(1)			FD	1		
Sulphurized fat (C14-C20)	2257								CAS No									
Sulphurized polyolefinamide alkene(C28-C250)amine (LOA)	1855	0	NI	0	NR	0	NI	0	0	(0)	0	0			FD	0		
Sulphurized polyolefinamide alkene (C28-C250) amine	2258								CAS No									
Sunflower oil	1283	0	NI	0	R	0	NI	(0)	(0)	(1)	(0)	(1)			Fp	2		
Sunflower seed oil	2782								CAS No								8001-21-6	

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 62 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
sym-Dichlorodiethyl ether	588	1	1	1	NR	1	0	2	3	4	1	3		T	SD	3
Dichloroethyl ether	233								CAS No			111-44-4				
Tall oil acids/linoleic acid dimer/polyalkylenepolyamines/dodecylbenzenesulphonic acid complexes in naphtha/isopropanol	2448	0	NI	0	NR	1	NI	0	0	(0)	0	0	CM		Fp	3
Tall oil acids/linoleic acid dimer/polyalkylenepolyamines/dodecylbenzenesulphonic acid complexes in naphtha/isopropanol	3866								CAS No							
Tall oil acids reaction products with diethylenetriamine and acrylic acid in ethylene glycol	2497	3	NI	3	R	2	NI	0	0	(1)	0	1	Ss		D	2
Tall oil acids reaction products with diethylenetriamine and acrylic acid in ethylene glycol	4131								CAS No			85586-18-1				
Tall oil acids reaction products with triethanolamine	2492	4	NI	4	NR	2	NI	0	0	(1)	1	0			Fp	2
Tall oil acids reaction products with triethanolamine	4126								CAS No			67784-78-5				
Tall oil, crude and distilled	1285	(4)	NI	(4)	(R)	(2)	NI	0	0	(0)	0	0	Ss		Fp	2
Tall oil (crude and distilled)	678								CAS No			68187-71-3				
Tall oil, distilled	2283	0	NI	0	R	0	NI	0	(0)	(0)	0	(0)			Fp	2
Tall oil, distilled	2890								CAS No							
Tall oil fatty acid (resin acids less than 20%)	1287	0	0	0	R	0	0	0	0	(1)	1	0			Fp	2
Tall oil fatty acid (resin acids less than 20%)	679								CAS No			61790-12-3				
Tall oil fatty acid, barium salt	1864	NI	NI	NI	NI	NI	NI	(1)	(0)	(2)	1	2			S	2
Tall oil fatty acid, barium salt	680								CAS No							
Tall oil fatty acids reaction products with 2-[(2-aminoethyl)amino]ethanol, di-ethyl sulphate quaternized	2508	(3)	NI	(3)	NR	5	2	NI	NI	NI	(2)	(3)	Ss		D	3
Tall oil fatty acids reaction products with 2-[(2-aminoethyl)amino]ethanol, di-ethyl sulphate quaternized	4160								CAS No			70955-34-9				
Tall oil pitch	2323	3	NI	3	NR	0	0	0	0	(0)	0	(0)			Fp	2
Tall oil pitch	3051								CAS No							
Tall oil soap (disproportionated solution)	1286	NI	NI	NI	NI	NI	NI	(1)	(0)	(2)	1	2			D	2
Tall oil soap (disproportionated) solution	681								CAS No							
Tall oil soap, crude	2432	0	NI	0	R	2	0	(0)	(0)	(3)	(3)	(3)	Ss		Fp	3
Tall oil soap, crude	3735								CAS No							
Tallow	1288	0	NI	0	R	0	NI	0	0	(0)	(0)	(0)			Fp	2
Tallow	682								CAS No			61789-21-6				
Tallowamidopropylamine Oxide in propylene glycol (70% or less) (#)	2482	NI	(2)	(2)	(R)	(4)	(2)	(1)	(1)	(3)	(3)	(3)			D	3
	4058								CAS No							

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 63 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3			
Tallow fatty acid	1289	0	NI	0	R	0	NI	0	(0)	(0)	(0)	(0)			Fp	2			
Tallow fatty acid	684								CAS No										
1,1,2,2-Tetrachloroethane	53	2	2	2	NR	3	0	2	0	2	2	2			SD	2			
Tetrachloroethane	687								CAS No								79-34-5		
1,1,2,2-Tetrachloroethylene	1295	3	2	2	NR	(3)	2	0	0	0	2	1	C		S	3			
Perchloroethylene	564								CAS No								127-18-4		
Tetrachloromethane	1296	2	2	2	NR	3	0	0	0	0	1	1	CT		S	3			
Carbon tetrachloride	178								CAS No								56-23-5		
Tetradecanoic acid (Myristic acid)	1298	5	NI	0	R	0	NI	0	(0)	(1)	(1)	(1)			Fp	2			
n-Tetradecanoic acid	491								CAS No								544-63-8		
Tetradecanoic acid (Myristic acid)	1298	5	NI	0	R	0	NI	0	(0)	(1)	(1)	(1)			Fp	2			
Fatty acid (saturated C13+)	347								CAS No								544-63-8		
Tetraethylene glycol	1301	0	NI	0	NR	0	NI	0	0	0	1	1			D	1			
Tetraethylene glycol	688								CAS No								112-60-7		
Tetraethylene pentamine	1302	0	NI	0	NR	3	NI	0	2	(3)	3	3	Ss		D	3			
Tetraethylene pentamine	689								CAS No								112-57-2		
Tetraethyl lead	1303	4	5	5	NR	5	NI	3	2	4	2	2	NR		S	3			
Motor fuel anti-knock compound (containing lead alkyls)	464								CAS No								78-00-2		
Tetrahydrofuran	1304	0	NI	0	R	0	NI	0	(0)	0	1	2			DE	2			
Tetrahydrofuran	690								CAS No								109-99-9		
Tetrahydronaphthalene	1305	3	3	3	NR	3	NI	0	0	(2)	2	0			F	2			
Tetrahydronaphthalene	691								CAS No								119-64-2		
1,2,3,4-Tetramethylbenzene	1307	4	NI	4	NI	4	NI	0	(0)	(1)	1	(1)			F	1			
Tetramethylbenzene (all isomers)	692								CAS No								488-23-3		
Tetrapotassium pyrophosphate	2400	Inorg	0	0	Inorg	1	NI	0	NI	NI	NI	NI			D	NI			
Tetrapotassium pyrophosphate	3635								CAS No								7320-34-5		
Thioglycolic acid	2496	0	NI	0	R	2	NI	2	2	3	3B	3			D	3			
Thioglycolic acid	4130								CAS No								68-11-1		
Thixatrol plus	2210	5	NI	5	R	3	NI	0	0	0	1	1			S	1			
Thixatrol Plus	2699								CAS No										

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 64 of 69

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

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 65 of 69

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

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 66 of 69

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

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 67 of 69

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

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 68 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3
Vegetable protein solution,hydrolyzed	1398	0	NI	0	R	0	NI	(0)	(0)	(0)	(0)	(0)			D	0
Vegetable protein solution (hydrolysed)	734								CAS No							
Vinyl acetate	1400	0	NI	0	R	2	NI	1	0	2	1	1	C		ED	3
Vinyl acetate	735								CAS No			108-05-4				
Vinyl ethyl ether	1405	1	NI	1	NR	1	NI	0	0	0	1	1			E	2
Vinyl ethyl ether	736								CAS No			109-92-2				
Vinylidene chloride	1406	2	1	1	NR	2	NI	2	0	(2)	2	2	M		SD	3
Vinylidene chloride	738								CAS No			75-35-4				
Vinyl neodecanoate	1404	5	NI	5	NR	3	NI	0	0	(3)	3	3			F	3
Vinyl neodecanoate	737								CAS No			45115-34-2				
Vinyl toluenes	1409	3	3	3	NR	3	NI	0	0	2	2	1	NM	(T)	F	3
Vinytoluene	739								CAS No			25013-15-4				
White spirit, low (15-20%)aromatic	1411	(4)	NI	(4)	(R)	3	NI	(0)	(0)	(2)	(1)	(2)	A		F	3
White spirit, low (15-20%) aromatic	742								CAS No							
Wood lignin with sodium acetate/oxalate	2403	NI	NI	(0)	NR	(0)	NI	0	(0)	(1)	(1)	(1)			D	1
Wood lignin with sodium acetate/oxalate	3638								CAS No							
Xylene (mixed isomers)	1408	3	NI	3	NR	3	0	0	0	0	2	2		(T)	FE	2
Xylenes	743								CAS No			133-20-7				
Xylenes/Ethyl benzene (10% or more) mixture	2269	3	2	2	NR	3	1	(0)	(0)	(2)	(2)	(2)		(T)	FE	2
Xylenes/ethylbenzene (10% or more) mixture	2337								CAS No							
Xylenols (mixtures)	1422	2	NI	2	R	3	NI	1	2	(3)	3	3		(T)	Fp	3
Xylenol	744								CAS No			1300-71-6				
Yeast Extract Solution with Propylene Glycol (25% or less)	2396	NI	0	0	R	0	NI	0	0	(1)	0	1			D	1
Stabilized Yeast Extract Solution	3631								CAS No			8013-01-2				
Zinc alkaryl dithiophosphate (C7-C16) (LOA)	1977	0	NI	0	NR	3	NI	0	0	(0)	(0)	(0)			Fp	2
Zinc alkaryl dithiophosphate (C7-C16)	745								CAS No							
Zinc alkenylcarboxamide (LOA)	2053	NI	0	0	NR	0	NI	0	0	(1)	1	(1)			Fp	2
Zinc alkenyl carboxamide	746								CAS No							
Zinc alkyl dithiophosphate	1428	5	NI	5	NR	3	NI	0	0	0	2	2			S	2
Zinc alkyl dithiophosphate (C3-C14)	747								CAS No							

**ANNEX 4 - GESAMP/EHS COMPOSITE LIST
GESAMP Hazard Profiles**

8 May 2020
Page 69 of 69

EHS Name TRN Name	EHS TRN	A1a	A1b	A1	A2	B1	B2	C1	C2	C3	D1	D2	D3	E1	E2	E3			
Zinc bromide solutions	2227	Inorg	4	4	Inorg	3	NI	1	(2)	(3)	3B	3	Ss		D	3			
Zinc bromide solutions	2617								CAS No										
Zinc chloride	1425	Inorg	4	4	Inorg	4	1	(1)	(1)	(3)	(3)	(3)			D	3			
Zinc chloride	2869								CAS No								7646-85-7		
Zinc chloride	1425	Inorg	4	4	Inorg	4	1	(1)	(1)	(3)	(3)	(3)			D	3			
Drilling brines (containing zinc chloride)	307								CAS No								7646-85-7		

ANNEX 5

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

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