



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 as amended by Commission Regulation (EU) 2020/878 and
Regulation (EC) No. 1272/2008

Issuing Date 09-Jun-2023

Revision Date 09-Jun-2023

Revision Number 1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name Synthetic V-Twin Transmission Fluid

Product Code(s) MVT

Synonyms None

Pure substance/mixture Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Transmission fluid

Uses advised against Avoid formation of mists

1.3. Details of the supplier of the safety data sheet

Manufacturer

AMSOIL INC.
One AMSOIL Center
Superior, WI 54880, USA
T: +1 715-392-7101

For further information, please contact

E-mail address compliance@amsoil.com

1.4. Emergency telephone number

Emergency telephone CHEMTREC (Poland): 48-223988029
CHEMTREC International: +1 703-741-5970

Emergency telephone - §45 - (EC)1272/2008

Europe 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin sensitisation	Category 1 - (H317)
Chronic aquatic toxicity	Category 3 - (H412)

2.2. Label elements

Contains Amines, C12-14-tert-alkyl



Signal word
Warning

Hazard statements

H317 - May cause an allergic skin reaction
H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements - EU (§28, 1272/2008)

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray
P280 - Wear protective gloves
P321 - Specific treatment (see .? on this label)
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
P362 + P364 - Take off contaminated clothing and wash it before reuse
P501 - Dispose of contents/ container to an approved waste disposal plant

Unknown aquatic toxicity Contains 0 % of components with unknown hazards to the aquatic environment.

2.3. Other hazards

Causes mild skin irritation. Harmful to aquatic life.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Hydrogenated base oil 64742-54-7	55-60	No data available	(649-467-00-8) 265-157-1	Carc. 1B (H350) (*L)	-	-	-
Amines, C12-14-tert-alkyl 68955-53-3	0.1-0.5	No data available	273-279-1	Acute Tox. 4 (H302) Acute Tox. 3 (H311) Acute Tox. 2 (H330) Skin Corr. 1B (H314) Skin Sens. 1A (H317) Aquatic Acute	-	1	1

				1 (H400) Aquatic Chronic 1 (H410)			
Hydrogenated base oil 8042-47-5	0.1-0.2	No data available	232-455-8	Asp. Tox. 1 (H304)	-	-	-
(Z)-Octadec-9-enyl amine 112-90-3	0.01-0.1	No data available	(612-283-00-3) 204-015-5	Acute Tox. 4 (H302) Skin Corr. 1B (H314) STOT SE 3 (H335) STOT RE 2 (H373) Asp. Tox. 1 (H304) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-	10	10
Ethyl acrylate 140-88-5	< 0.01	No data available	(607-032-00-X) 205-438-8	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 3 (H331) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) STOT SE 3 (H335) Flam. Liq. 2 (H225) Aquatic Chronic 3 (H412)	Eye Irrit. 2 :: C>=5% Skin Irrit. 2 :: C>=5% STOT SE 3 :: C>=5%	-	-
Phosphoric acid 7664-38-2	< 0.01	No data available	(015-011-00-6) 231-633-2	Skin Corr. 1B (H314)	Eye Irrit. 2 :: 10%<=C<25% Skin Corr. 1B :: C>=25% Skin Irrit. 2 :: 10%<=C<25%	-	-
Butan-1-ol 71-36-3	< 0.01	No data available	(603-004-00-6) 200-751-6	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) STOT SE 3 (H335) STOT SE 3 (H336) Flam. Liq. 3 (H226)	-	-	-

Xylene 1330-20-7	< 0.01	No data available	(601-022-00-9) 215-535-7	Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Flam. Liq. 3 (H226)	-	-	-
Phenol, 2,6-bis(1,1-dimethylet hyl)-4-methyl- 128-37-0	< 0.01	No data available	204-881-4	Aquatic Chronic 1 (H410)	-	1	1
Phenol 108-95-2	< 0.01	No data available	(604-001-00-2) 203-632-7	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) Skin Corr. 1B (H314) Muta. 2 (H341) STOT RE 2 (H373) Aquatic Chronic 2 (H411)	Eye Irrit. 2 :: 1%<=C<3% Skin Corr. 1B :: C>=3% Skin Irrit. 2 :: 1%<=C<3%	-	-
Naphthalene 91-20-3	< 0.01	No data available	(601-052-00-2) 202-049-5	Acute Tox. 4 (H302) Carc. 2 (H351) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-	-	-
Methyloxirane 75-56-9	< 0.01	No data available	(603-055-00-4) 200-879-2	Acute Tox. 4 (H302) Acute Tox. 3 (H311) Acute Tox. 3 (H331) Eye Irrit. 2 (H319) Muta. 1B (H340) Carc. 1B (H350) STOT SE 3 (H335) Flam. Liq. 1 (H224)	-	-	-
Ethylene oxide 75-21-8	< 0.01	No data available	(603-023-00-X) 200-849-9	Acute Tox. 3 (H301) Acute Tox. 3 (H331) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Muta. 1B (H340)	-	-	-

				Carc. 1B (H350) STOT SE 3 (H335) Flam. Gas 1 (H220) Press. Gas			
Ethylbenzene 100-41-4	< 0.01	No data available	(601-023-00-4) 202-849-4	Acute Tox. 4 (H332) STOT RE 2 (H373) Asp. Tox. 1 (H304) Flam. Liq. 2 (H225)	-	-	-
Benzene 71-43-2	< 0.01	-	(601-020-00-8) 200-753-7	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Muta. 1B (H340) Carc. 1A (H350) STOT RE 1 (H372) Asp. Tox. 1 (H304) Flam. Liq. 2 (H225)	-	-	-
1,4-dioxane 123-91-1	< 0.01	No data available	(603-024-00-5) 204-661-8	Eye Irrit. 2 (H319) Carc. 1B (H350) STOT SE 3 (H335) Flam. Liq. 2 (H225) (EUH066) (EUH019)	-	-	-

Additional information

The classification as a carcinogen does not apply as it can be shown that the substance(s) contain(s) less than 3% DMSO extract as measured by IP 346

Full text of H- and EUH-phrases: see section 16Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Hydrogenated base oil 64742-54-7	15015	5005	No data available	No data available	No data available
Amines, C12-14-tert-alkyl 68955-53-3	300	No data available	No data available	No data available	No data available
Hydrogenated base oil	5005	No data available	No data available	No data available	No data available

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
8042-47-5					
(Z)-Octadec-9-enylamine 112-90-3	1689	No data available	No data available	No data available	No data available
Ethyl acrylate 140-88-5	550	1790	No data available	5.7732	No data available
Phosphoric acid 7664-38-2	1530	2740	0.2127	No data available	No data available
Butan-1-ol 71-36-3	700	3402	No data available	24.2762	No data available
Xylene 1330-20-7	3500	4354.35	29.08	No data available	No data available
Phenol, 2,6-bis(1,1-dimethylethyl)- 4-methyl- 128-37-0	2932.93	2002	No data available	No data available	No data available
Phenol 108-95-2	340	630	No data available	No data available	No data available
Naphthalene 91-20-3	1110	1120	0.4004	No data available	No data available
Methyloxirane 75-56-9	520	1244	9.48	No data available	No data available
Ethylene oxide 75-21-8	100 + 72	No data available	No data available	No data available	700 + 800
Ethylbenzene 100-41-4	3500	15400	17.4	No data available	No data available
Benzene 71-43-2	810	8208.2	44.66	No data available	No data available
1,4-dioxane 123-91-1	5170	7600	23	No data available	No data available

+ This value is the harmonised acute toxicity estimate (ATE) listed in CLP Annex VI, Part 3. This harmonised ATE value must be used when calculating the acute toxicity estimate (ATE_{mix}) for classifying a mixture containing the listed substance

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove person to fresh air and keep comfortable for breathing.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Skin contact	Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor.
Ingestion	Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms May cause skin irritation in susceptible persons. May cause temporary eye irritation. Itching. Rashes. Hives. Prolonged contact may cause redness and irritation.

Effects of Exposure No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors May cause sensitisation in susceptible persons. Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable Extinguishing Media Water spray, carbon dioxide (CO₂), dry chemical, alcohol-resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical Containers can burst or explode when heated, due to excessive pressure build-up. Product is or contains a sensitiser. May cause sensitisation by skin contact.

Hazardous combustion products Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

5.3. Advice for firefighters

Specific/special fire-fighting measures Fires need to be assessed to determine appropriate protocols and safety measures for firefighting, including establishing safe zones, extinguishing media to be used, firefighter protection, and actions to control or extinguish the fire.

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions Do not handle until all safety precautions have been read and understood. Wear personal protective clothing and equipment, see Section 8. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13). Clean contaminated surface thoroughly.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections**Reference to other sections**

For additional information see: Section 8: Exposure controls/personal protection; Section 12: Ecological information; Section 13: Disposal considerations.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Do not handle until all safety precautions have been read and understood. Avoid contact with used product. Wear personal protective equipment. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse.

General hygiene considerations

Wash face, hands and any exposed skin thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities**Storage Conditions**

Keep away from Incompatible materials. See section 10 for more information. Keep containers tightly closed in a dry, cool and well-ventilated place.

Storage class (TRGS 510)

LGK 10.

7.3. Specific end use(s)**Specific use(s).**

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Ethyl acrylate 140-88-5	TWA: 5 ppm TWA: 21 mg/m ³ STEL: 10 ppm STEL: 42 mg/m ³	TWA: 5 ppm TWA: 20 mg/m ³ STEL 10 ppm STEL 40 mg/m ³ H* Sh+	TWA: 5 ppm TWA: 21 mg/m ³ STEL: 10 ppm STEL: 42 mg/m ³	STEL: 10 ppm STEL: 42 mg/m ³ TWA: 5 ppm TWA: 21 mg/m ³	TWA: 5 ppm TWA: 21 mg/m ³ STEL: 10 ppm STEL: 42 mg/m ³ * Skin Sensitisation
Phosphoric acid 7664-38-2	TWA: 1 mg/m ³ STEL: 2 mg/m ³	TWA: 1 mg/m ³ STEL 2 mg/m ³	TWA: 1 mg/m ³ STEL: 2 mg/m ³	STEL: 2.0 mg/m ³ TWA: 1.0 mg/m ³	TWA: 1 mg/m ³ STEL: 2 mg/m ³
Butan-1-ol 71-36-3	-	TWA: 50 ppm TWA: 150 mg/m ³ STEL 200 ppm STEL 600 mg/m ³	TWA: 20 ppm TWA: 62 mg/m ³ D*	STEL: 150 mg/m ³ TWA: 100 mg/m ³	STEL: 50 ppm STEL: 154 mg/m ³ *
Xylene 1330-20-7	TWA: 50 ppm TWA: 221 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ *	TWA: 50 ppm TWA: 221 mg/m ³ STEL 100 ppm STEL 442 mg/m ³	TWA: 50 ppm TWA: 221 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ D*	STEL: 100 ppm STEL: 442 mg/m ³ TWA: 50 ppm TWA: 221.0 mg/m ³ K*	TWA: 50 ppm TWA: 221 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ *
Phenol, 2,6-bis(1,1-dimethylethyl) -4-methyl- 128-37-0	-	TWA: 10 mg/m ³	TWA: 2 mg/m ³	STEL: 50 mg/m ³ TWA: 10 mg/m ³	TWA: 10 mg/m ³
Phenol	TWA: 2 ppm	TWA: 2 ppm	TWA: 2 ppm	STEL: 4 ppm	TWA: 2 ppm

108-95-2	TWA: 8 mg/m ³ STEL: 4 ppm STEL: 16 mg/m ³ *	TWA: 8 mg/m ³ STEL 4 ppm STEL 16 mg/m ³ H*	TWA: 8 mg/m ³ STEL: 4 ppm STEL: 16 mg/m ³ D*	STEL: 16 mg/m ³ TWA: 2 ppm TWA: 8 mg/m ³ K*	TWA: 8 mg/m ³ STEL: 4 ppm STEL: 16 mg/m ³ *
Naphthalene 91-20-3	TWA: 10 ppm TWA: 50 mg/m ³	TWA: 10 ppm TWA: 50 mg/m ³ H*	TWA: 10 ppm TWA: 53 mg/m ³ STEL: 15 ppm STEL: 80 mg/m ³ D*	STEL: 75.0 mg/m ³ TWA: 50.0 mg/m ³	TWA: 10 ppm TWA: 50 mg/m ³
Methyloxirane 75-56-9	TWA: 2.4 mg/m ³ TWA: 1 ppm	TWA: 1 ppm TWA: 2.4 mg/m ³ STEL 4 ppm STEL 8 mg/m ³	TWA: 1 ppm TWA: 2.4 mg/m ³	TWA: 2.4 mg/m ³ TWA: 1 ppm	TWA: 1 ppm TWA: 2.4 mg/m ³
Ethylene oxide 75-21-8	TWA: 1.8 mg/m ³ TWA: 1 ppm *	H*	TWA: 1 ppm TWA: 1.8 mg/m ³ D*	TWA: 1.8 mg/m ³ TWA: 1 ppm K*	TWA: 1 ppm TWA: 1.8 mg/m ³ *
Ethylbenzene 100-41-4	TWA: 100 ppm TWA: 442 mg/m ³ STEL: 200 ppm STEL: 884 mg/m ³ *	TWA: 100 ppm TWA: 440 mg/m ³ STEL 200 ppm STEL 880 mg/m ³ H*	TWA: 20 ppm TWA: 87 mg/m ³ STEL: 125 ppm STEL: 551 mg/m ³ D*	STEL: 545 mg/m ³ TWA: 435 mg/m ³ K*	TWA: 100 ppm TWA: 442 mg/m ³ STEL: 200 ppm STEL: 884 mg/m ³ *
Benzene 71-43-2	TWA: 0.2 ppm TWA: 0.66 mg/m ³ *	H*	TWA: 1 ppm TWA: 3.25 mg/m ³ D*	TWA: 3.25 mg/m ³ TWA: 1 ppm K*	TWA: 1 ppm TWA: 3.25 mg/m ³ *
1,4-dioxane 123-91-1	TWA: 20 ppm TWA: 73 mg/m ³	TWA: 20 ppm TWA: 73 mg/m ³ STEL 40 ppm STEL 146 mg/m ³ H*	TWA: 20 ppm TWA: 73 mg/m ³ D*	TWA: 20 ppm TWA: 73 mg/m ³	TWA: 20 ppm TWA: 73 mg/m ³
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Ethyl acrylate 140-88-5	STEL: 42 mg/m ³ STEL: 10 ppm TWA: 21 mg/m ³ TWA: 5 ppm	TWA: 20 mg/m ³ Ceiling: 40 mg/m ³ D* S+	TWA: 5 ppm TWA: 21 mg/m ³ H* STEL: 42 mg/m ³ STEL: 10 ppm	S+ TWA: 5 ppm TWA: 21 mg/m ³ STEL: 10 ppm STEL: 42 mg/m ³	TWA: 5 ppm TWA: 21 mg/m ³ STEL: 10 ppm STEL: 42 mg/m ³ iho*
Phosphoric acid 7664-38-2	STEL: 2.0 mg/m ³ TWA: 1 mg/m ³	TWA: 1 mg/m ³ Ceiling: 2 mg/m ³	TWA: 1 mg/m ³ STEL: 2 mg/m ³	TWA: 1 mg/m ³ STEL: 2 mg/m ³	TWA: 1 mg/m ³ STEL: 2 mg/m ³
Butan-1-ol 71-36-3	-	TWA: 300 mg/m ³ Ceiling: 600 mg/m ³ D*	Ceiling: 50 ppm Ceiling: 150 mg/m ³ H*	TWA: 15 ppm TWA: 45 mg/m ³ STEL: 30 ppm STEL: 90 mg/m ³ A*	TWA: 50 ppm TWA: 150 mg/m ³ STEL: 75 ppm STEL: 230 mg/m ³ iho*
Xylene 1330-20-7	* STEL: 100 ppm STEL: 442 mg/m ³ TWA: 50 ppm TWA: 221 mg/m ³	TWA: 200 mg/m ³ Ceiling: 400 mg/m ³ D*	TWA: 25 ppm TWA: 109 mg/m ³ H* STEL: 442 mg/m ³ STEL: 100 ppm	TWA: 50 ppm TWA: 200 mg/m ³ STEL: 100 ppm STEL: 450 mg/m ³ A*	TWA: 50 ppm TWA: 220 mg/m ³ STEL: 100 ppm STEL: 440 mg/m ³ iho*
Phenol, 2,6-bis(1,1-dimethylethyl)- 4-methyl- 128-37-0	-	-	TWA: 10 mg/m ³ STEL: 20 mg/m ³	-	TWA: 10 mg/m ³ STEL: 20 mg/m ³
Phenol 108-95-2	* STEL: 16 mg/m ³ STEL: 4 ppm TWA: 8 mg/m ³ TWA: 2 ppm	TWA: 7.5 mg/m ³ Ceiling: 15 mg/m ³ D*	TWA: 1 ppm TWA: 4 mg/m ³ H* STEL: 16 mg/m ³ STEL: 4 ppm	TWA: 2 ppm TWA: 8 mg/m ³ STEL: 16 mg/m ³ STEL: 4 ppm A*	TWA: 2 ppm TWA: 8 mg/m ³ STEL: 4 ppm STEL: 16 mg/m ³ iho*
Naphthalene 91-20-3	TWA: 10 ppm TWA: 50 mg/m ³	TWA: 50 mg/m ³ Ceiling: 100 mg/m ³	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 20 ppm	TWA: 10 ppm TWA: 50 mg/m ³	TWA: 1 ppm TWA: 5 mg/m ³ STEL: 2 ppm

			STEL: 100 mg/m ³		STEL: 10 mg/m ³
Methyloxirane 75-56-9	TWA: 1 ppm TWA: 2.4 mg/m ³	TWA: 2.4 mg/m ³ Ceiling: 5 mg/m ³	TWA: 1 ppm TWA: 2.4 mg/m ³ H* STEL: 2 ppm STEL: 4.8 mg/m ³	TWA: 1 ppm TWA: 2.4 mg/m ³ STEL: 10 ppm STEL: 25 mg/m ³	TWA: 1 ppm TWA: 2.4 mg/m ³ iho*
Ethylene oxide 75-21-8	* TWA: 1.8 mg/m ³ TWA: 1 ppm	TWA: 1 mg/m ³ Ceiling: 3 mg/m ³ D*	TWA: 1 ppm TWA: 1.8 mg/m ³ H* STEL: 2 ppm STEL: 3.6 mg/m ³	TWA: 1 ppm TWA: 1.8 mg/m ³ STEL: 5 ppm STEL: 9 mg/m ³ A*	TWA: 1 ppm TWA: 1.8 mg/m ³ iho*
Ethylbenzene 100-41-4	* STEL: 200 ppm STEL: 884 mg/m ³ TWA: 100 ppm TWA: 442 mg/m ³	TWA: 200 mg/m ³ Ceiling: 500 mg/m ³ D*	TWA: 50 ppm TWA: 217 mg/m ³ H* STEL: 434 mg/m ³ STEL: 100 ppm	S+ TWA: 100 ppm TWA: 442 mg/m ³ STEL: 200 ppm STEL: 884 mg/m ³ A*	TWA: 50 ppm TWA: 220 mg/m ³ STEL: 200 ppm STEL: 880 mg/m ³ iho*
Benzene 71-43-2	* TWA: 1 ppm TWA: 3.25 mg/m ³	TWA: 3 mg/m ³ Ceiling: 10 mg/m ³ D*	TWA: 0.5 ppm TWA: 1.6 mg/m ³ H* STEL: 1 ppm STEL: 3.2 mg/m ³	TWA: 0.5 ppm TWA: 1.5 mg/m ³ STEL: 3 ppm STEL: 9 mg/m ³ A*	TWA: 1 ppm TWA: 3.25 mg/m ³ iho*
1,4-dioxane 123-91-1	TWA: 73 mg/m ³ TWA: 20 ppm	TWA: 70 mg/m ³ Ceiling: 140 mg/m ³ D*	TWA: 10 ppm TWA: 36 mg/m ³ H* STEL: 20 ppm STEL: 72 mg/m ³	TWA: 20 ppm TWA: 73 mg/m ³	TWA: 10 ppm TWA: 36 mg/m ³ STEL: 40 ppm STEL: 150 mg/m ³ iho*
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Hydrogenated base oil 8042-47-5	-	TWA: 5 mg/m ³	TWA: 5 mg/m ³ Peak: 20 mg/m ³	-	TWA: 5 mg/m ³
Ethyl acrylate 140-88-5	TWA: 5 ppm TWA: 21 mg/m ³ STEL: 42 mg/m ³ STEL: 10 ppm	TWA: 2 ppm TWA: 8.3 mg/m ³ Sh+ H*	TWA: 2 ppm TWA: 8.3 mg/m ³ Peak: 4 ppm Peak: 16.6 mg/m ³ * skin sensitizer	TWA: 5 ppm TWA: 21 mg/m ³ STEL: 10 ppm STEL: 42 mg/m ³	TWA: 5 ppm TWA: 21 mg/m ³ sz+ STEL: 10 ppm STEL: 42 mg/m ³ b*
Phosphoric acid 7664-38-2	TWA: 0.2 ppm TWA: 1 mg/m ³ STEL: 0.5 ppm STEL: 2 mg/m ³	TWA: 2 mg/m ³	TWA: 2 mg/m ³ Peak: 4 mg/m ³	TWA: 1 mg/m ³ STEL: 3 mg/m ³	TWA: 1 mg/m ³ STEL: 2 mg/m ³
Butan-1-ol 71-36-3	STEL: 50 ppm STEL: 150 mg/m ³	TWA: 100 ppm TWA: 310 mg/m ³	TWA: 100 ppm TWA: 310 mg/m ³ Peak: 100 ppm Peak: 310 mg/m ³	TWA: 100 ppm TWA: 300 mg/m ³ STEL: 100 ppm STEL: 300 mg/m ³ *	TWA: 45 mg/m ³ STEL: 90 mg/m ³ b*
Xylene 1330-20-7	TWA: 50 ppm TWA: 221 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ *	TWA: 50 ppm TWA: 220 mg/m ³ H*	TWA: 50 ppm TWA: 220 mg/m ³ Peak: 100 ppm Peak: 440 mg/m ³ *	TWA: 100 ppm TWA: 435 mg/m ³ STEL: 150 ppm STEL: 650 mg/m ³ *	TWA: 221 mg/m ³ TWA: 50 ppm STEL: 442 mg/m ³ STEL: 100 ppm b*
Phenol, 2,6-bis(1,1-dimethylethyl)- -4-methyl- 128-37-0	TWA: 10 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³ Peak: 40 mg/m ³	TWA: 10 mg/m ³	-
Phenol 108-95-2	TWA: 2 ppm TWA: 7.8 mg/m ³ STEL: 4 ppm STEL: 15.6 mg/m ³ *	TWA: 2 ppm TWA: 8 mg/m ³ H*	*	TWA: 2 ppm TWA: 8 mg/m ³ STEL: 4 ppm STEL: 16 mg/m ³ *	TWA: 2 ppm TWA: 8 mg/m ³ STEL: 4 ppm STEL: 16 mg/m ³ b*

Naphthalene 91-20-3	TWA: 10 ppm TWA: 50 mg/m ³	TWA: 0.4 ppm TWA: 2 mg/m ³ H*	*	TWA: 10 ppm TWA: 50 mg/m ³	TWA: 50 mg/m ³ TWA: 10 ppm
Methyloxirane 75-56-9	TWA: 1 ppm TWA: 2.4 mg/m ³	TWA: 1 ppm TWA: 2.4 mg/m ³ Sh+	TWA: 2 ppm TWA: 4.8 mg/m ³ Peak: 4 ppm Peak: 9.6 mg/m ³ skin sensitizer	TWA: 1 ppm TWA: 2.4 mg/m ³	TWA: 2.4 mg/m ³ TWA: 1 ppm b*
Ethylene oxide 75-21-8	TWA: 1 ppm TWA: 1.8 mg/m ³ *	H*	*	TWA: 1 ppm TWA: 1.8 mg/m ³ *	TWA: 1 ppm TWA: 1.8 mg/m ³ SZ+ b*
Ethylbenzene 100-41-4	TWA: 20 ppm TWA: 88.4 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ *	TWA: 20 ppm TWA: 88 mg/m ³ H*	TWA: 20 ppm TWA: 88 mg/m ³ Peak: 40 ppm Peak: 176 mg/m ³ *	TWA: 100 ppm TWA: 435 mg/m ³ STEL: 125 ppm STEL: 545 mg/m ³	TWA: 100 ppm TWA: 442 mg/m ³ STEL: 200 ppm STEL: 884 mg/m ³ b*
Benzene 71-43-2	TWA: 1 ppm TWA: 3.25 mg/m ³ STEL: 1500 mg/m ³ *	H*	*	TWA: 3.25 mg/m ³ TWA: 1.0 ppm *	TWA: 1 ppm TWA: 3.25 mg/m ³ b*
1,4-dioxane 123-91-1	TWA: 20 ppm TWA: 73 mg/m ³ STEL: 40 ppm STEL: 140 mg/m ³	TWA: 20 ppm TWA: 73 mg/m ³ H*	TWA: 10 ppm TWA: 37 mg/m ³ Peak: 20 ppm Peak: 74 mg/m ³ *	TWA: 20 ppm TWA: 73 mg/m ³	TWA: 20 ppm TWA: 73 mg/m ³ b*
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Hydrogenated base oil 8042-47-5	-	-	-	TWA: 5 mg/m ³	-
Ethyl acrylate 140-88-5	TWA: 5 ppm TWA: 20 mg/m ³ STEL: 10 ppm STEL: 41 mg/m ³ Sk* Sens+	TWA: 5 ppm TWA: 21 mg/m ³ STEL: 10 ppm STEL: 42 mg/m ³	TWA: 5 ppm TWA: 20 mg/m ³ STEL: 15 ppm STEL: 61 mg/m ³	TWA: 10 mg/m ³	J+ TWA: 5 ppm TWA: 21 mg/m ³ STEL: 10 ppm STEL: 42 mg/m ³
Phosphoric acid 7664-38-2	TWA: 1 mg/m ³ STEL: 2 mg/m ³	TWA: 1 mg/m ³ STEL: 2 mg/m ³	TWA: 1 mg/m ³ STEL: 3 mg/m ³	TWA: 1 mg/m ³ STEL: 2 mg/m ³	TWA: 1 mg/m ³ STEL: 2 mg/m ³
Butan-1-ol 71-36-3	TWA: 20 ppm STEL: 60 ppm Sk*	-	TWA: 20 ppm TWA: 61 mg/m ³	TWA: 10 mg/m ³	O* TWA: 15 ppm TWA: 45 mg/m ³ Ceiling: 30 ppm Ceiling: 90 mg/m ³
Xylene 1330-20-7	TWA: 50 ppm TWA: 221 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ Sk*	TWA: 50 ppm TWA: 221 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ cute*	TWA: 100 ppm TWA: 434 mg/m ³ STEL: 150 ppm STEL: 651 mg/m ³	TWA: 50 ppm TWA: 221 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ Ada*	O* TWA: 221 mg/m ³ TWA: 50 ppm STEL: 442 mg/m ³ STEL: 100 ppm
Phenol, 2,6-bis(1,1-dimethylethyl)- 4-methyl- 128-37-0	TWA: 2 mg/m ³ STEL: 6 mg/m ³	-	TWA: 2 mg/m ³	-	-
Phenol 108-95-2	TWA: 2 ppm TWA: 8 mg/m ³ STEL: 4 ppm STEL: 16 mg/m ³ Sk*	TWA: 2 ppm TWA: 8.0 mg/m ³ STEL: 4 ppm STEL: 16 mg/m ³ cute*	TWA: 5 ppm TWA: 19.2 mg/m ³ cute*	TWA: 2 ppm TWA: 8 mg/m ³ STEL: 4 ppm STEL: 16 mg/m ³ Ada*	O* TWA: 2 ppm TWA: 8 mg/m ³ STEL: 4 ppm STEL: 16 mg/m ³
Naphthalene 91-20-3	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 30 ppm	-	TWA: 10 ppm TWA: 52 mg/m ³ cute*	TWA: 10 ppm TWA: 50 mg/m ³	TWA: 10 ppm TWA: 50 mg/m ³

	STEL: 150 mg/m ³				
Methyloxirane 75-56-9	TWA: 1 ppm TWA: 2.4 mg/m ³ STEL: 3 ppm STEL: 7.2 mg/m ³	TWA: 2.4 mg/m ³ TWA: 1 ppm	TWA: 2 ppm TWA: 4.8 mg/m ³ senD+	TWA: 1 ppm TWA: 2.4 mg/m ³	TWA: 1 ppm TWA: 2.4 mg/m ³
Ethylene oxide 75-21-8	TWA: 1 ppm TWA: 1.8 mg/m ³ STEL: 3 ppm STEL: 5.4 mg/m ³ Sk*	TWA: 1.8 mg/m ³ TWA: 1 ppm cute*	TWA: 1 ppm TWA: 1.8 mg/m ³	TWA: 1 mg/m ³ TWA: 0.55 ppm Ada*	O* TWA: 1 ppm TWA: 1.8 mg/m ³ STEL: 5 ppm STEL: 9 mg/m ³
Ethylbenzene 100-41-4	TWA: 100 ppm TWA: 442 mg/m ³ STEL: 200 ppm STEL: 884 mg/m ³ Sk*	TWA: 100 ppm TWA: 442 mg/m ³ STEL: 200 ppm STEL: 884 mg/m ³ cute*	TWA: 20 ppm TWA: 87 mg/m ³	TWA: 100 ppm TWA: 442 mg/m ³ STEL: 200 ppm STEL: 884 mg/m ³ Ada*	O* TWA: 100 ppm TWA: 442 mg/m ³ STEL: 200 ppm STEL: 884 mg/m ³
Benzene 71-43-2	TWA: 1 ppm TWA: 3.25 mg/m ³ STEL: 3 ppm STEL: 9.75 mg/m ³ Sk*	TWA: 3.25 mg/m ³ TWA: 1 ppm cute*	TWA: 0.5 ppm TWA: 1.6 mg/m ³ STEL: 2.5 ppm STEL: 8 mg/m ³ cute*	TWA: 1 ppm TWA: 3.25 mg/m ³ Ada*	O* TWA: 1 ppm TWA: 3.25 mg/m ³ STEL: 6 ppm STEL: 19 mg/m ³
1,4-dioxane 123-91-1	TWA: 20 ppm TWA: 73 mg/m ³ STEL: 60 ppm STEL: 219 mg/m ³ Sk*	cute*	TWA: 20 ppm TWA: 72 mg/m ³ cute*	TWA: 5.5 ppm TWA: 20 mg/m ³	TWA: 10 ppm TWA: 35 mg/m ³ STEL: 25 ppm STEL: 90 mg/m ³
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Ethyl acrylate 140-88-5	STEL: 42 mg/m ³ STEL: 10 ppm TWA: 21 mg/m ³ TWA: 5 ppm	STEL: 42 mg/m ³ STEL: 10 ppm TWA: 21 mg/m ³ TWA: 5 ppm	TWA: 5 ppm TWA: 21 mg/m ³ STEL: 10 ppm STEL: 42 mg/m ³	TWA: 5 ppm TWA: 21 mg/m ³ A+ STEL: 10 ppm STEL: 42 mg/m ³ H*	STEL: 40 mg/m ³ TWA: 20 mg/m ³ skóra*
Phosphoric acid 7664-38-2	STEL: 2 mg/m ³ TWA: 1 mg/m ³	STEL: 2 mg/m ³ TWA: 1 mg/m ³	TWA: 1 mg/m ³ STEL: 2 mg/m ³	TWA: 1 mg/m ³ STEL: 3 mg/m ³	STEL: 2 mg/m ³ TWA: 1 mg/m ³
Butan-1-ol 71-36-3	-	-	-	Ceiling: 25 ppm Ceiling: 75 mg/m ³ H*	STEL: 150 mg/m ³ TWA: 50 mg/m ³ skóra*
Xylene 1330-20-7	Peau* STEL: 100 ppm STEL: 442 mg/m ³ TWA: 50 ppm TWA: 221 mg/m ³	skin* STEL: 100 ppm STEL: 442 mg/m ³ TWA: 50 ppm TWA: 221 mg/m ³	TWA: 47.5 ppm TWA: 210 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ H*	TWA: 25 ppm TWA: 108 mg/m ³ STEL: 37.5 ppm STEL: 135 mg/m ³ H*	STEL: 200 mg/m ³ TWA: 100 mg/m ³ skóra*
Phenol 108-95-2	Peau* STEL: 16 mg/m ³ STEL: 4 ppm TWA: 2 ppm TWA: 8 mg/m ³	skin* STEL: 16 mg/m ³ STEL: 4 ppm TWA: 2 ppm TWA: 8 mg/m ³	TWA: 2 ppm TWA: 8 mg/m ³ H*	TWA: 1 ppm TWA: 4 mg/m ³ STEL: 3 ppm STEL: 12 mg/m ³ H*	STEL: 16 mg/m ³ TWA: 7.8 mg/m ³ skóra*
Naphthalene 91-20-3	TWA: 10 ppm TWA: 50 mg/m ³	TWA: 10 ppm TWA: 50 mg/m ³	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 16 ppm STEL: 80 mg/m ³	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 20 ppm STEL: 75 mg/m ³	STEL: 50 mg/m ³ TWA: 20 mg/m ³ skóra*
Methyloxirane 75-56-9	-	-	TWA: 1 ppm TWA: 2.4 mg/m ³	TWA: 1 ppm TWA: 2 mg/m ³ A+ STEL: 3 ppm STEL: 4 mg/m ³ H*	TWA: 2.4 mg/m ³
Ethylene oxide 75-21-8	-	-	TWA: 0.46 ppm TWA: 0.84 mg/m ³	TWA: 1 ppm TWA: 1.8 mg/m ³	TWA: 1 mg/m ³ skóra*

			H*	STEL: 3 ppm STEL: 3.6 mg/m ³ H*	
Ethylbenzene 100-41-4	Peau* STEL: 200 ppm STEL: 884 mg/m ³ TWA: 100 ppm TWA: 442 mg/m ³	skin* STEL: 200 ppm STEL: 884 mg/m ³ TWA: 100 ppm TWA: 442 mg/m ³	TWA: 48.6 ppm TWA: 215 mg/m ³ STEL: 97.3 ppm STEL: 430 mg/m ³ H*	TWA: 5 ppm TWA: 20 mg/m ³ STEL: 10 ppm STEL: 30 mg/m ³ H*	STEL: 400 mg/m ³ TWA: 200 mg/m ³ skóra*
Benzene 71-43-2	-	-	TWA: 0.2 ppm TWA: 0.7 mg/m ³ H*	TWA: 0.2 ppm TWA: 0.66 mg/m ³ STEL: 0.6 ppm STEL: 1.98 mg/m ³ H*	TWA: 1.6 mg/m ³ skóra*
1,4-dioxane 123-91-1	TWA: 73 mg/m ³ TWA: 20 ppm	TWA: 73 mg/m ³ TWA: 20 ppm	TWA: 5.5 ppm TWA: 20 mg/m ³	TWA: 5 ppm TWA: 18 mg/m ³ STEL: 10 ppm STEL: 36 mg/m ³ H*	TWA: 50 mg/m ³
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Hydrogenated base oil 8042-47-5	-	-	-	TWA: 5 mg/m ³ STEL: 20 mg/m ³	-
Ethyl acrylate 140-88-5	TWA: 5 ppm TWA: 21 mg/m ³ STEL: 10 ppm STEL: 42 mg/m ³	TWA: 5 ppm TWA: 21 mg/m ³ STEL: 10 ppm STEL: 42 mg/m ³	TWA: 5 ppm TWA: 21 mg/m ³ S+ Ceiling: 42 mg/m ³	TWA: 5 ppm TWA: 21 mg/m ³ STEL: 10 ppm STEL: 42 mg/m ³ K*	TWA: 5 ppm TWA: 21 mg/m ³ STEL: 10 ppm STEL: 42 mg/m ³ Sen+
Phosphoric acid 7664-38-2	TWA: 1 mg/m ³ STEL: 2 mg/m ³	TWA: 1 mg/m ³ STEL: 2 mg/m ³	TWA: 1 mg/m ³ Ceiling: 2 mg/m ³	TWA: 1 mg/m ³ STEL: 2 mg/m ³	TWA: 1 mg/m ³ STEL: 2 mg/m ³
Butan-1-ol 71-36-3	TWA: 20 ppm	TWA: 33 ppm TWA: 100 mg/m ³ STEL: 66 ppm STEL: 200 mg/m ³	TWA: 100 ppm TWA: 310 mg/m ³ Ceiling: 310 mg/m ³	TWA: 100 ppm TWA: 310 mg/m ³ STEL: 100 ppm STEL: 310 mg/m ³	TWA: 20 ppm TWA: 61 mg/m ³ STEL: 50 ppm STEL: 154 mg/m ³
Xylene 1330-20-7	TWA: 50 ppm TWA: 221 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ Cutânea*	TWA: 50 ppm TWA: 221 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ P*	TWA: 50 ppm TWA: 221 mg/m ³ K* Ceiling: 442 mg/m ³	TWA: 50 ppm TWA: 221 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ K*	TWA: 50 ppm TWA: 221 mg/m ³ STEL: 100 ppm STEL: 442 mg/m ³ vía dérmica*
Phenol, 2,6-bis(1,1-dimethylethyl)- 4-methyl- 128-37-0	TWA: 2 mg/m ³	-	-	TWA: 10 mg/m ³ STEL: 40 mg/m ³	TWA: 10 mg/m ³
Phenol 108-95-2	TWA: 2 ppm TWA: 8 mg/m ³ STEL: 4 ppm STEL: 16 mg/m ³ Cutânea*	TWA: 2 ppm TWA: 8 mg/m ³ STEL: 4 ppm STEL: 16 mg/m ³ P*	TWA: 2 ppm TWA: 8 mg/m ³ K* Ceiling: 16 mg/m ³	TWA: 2 ppm TWA: 8 mg/m ³ STEL: 4 ppm STEL: 16 mg/m ³ K*	TWA: 2 ppm TWA: 8 mg/m ³ STEL: 4 ppm STEL: 16 mg/m ³ vía dérmica*
Naphthalene 91-20-3	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 15 ppm Cutânea*	TWA: 10 ppm TWA: 50 mg/m ³	TWA: 10 ppm TWA: 50 mg/m ³ K* Ceiling: 80 mg/m ³	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 10 ppm STEL: 50 mg/m ³ K*	TWA: 10 ppm TWA: 53 mg/m ³ STEL: 15 ppm STEL: 80 mg/m ³ vía dérmica*
Methyloxirane 75-56-9	TWA: 1 ppm TWA: 2.4 mg/m ³ Sensitizer dermal	TWA: 21 ppm TWA: 50 mg/m ³	TWA: 2.5 ppm TWA: 6 mg/m ³ STEL: 12.5 ppm STEL: 30 mg/m ³ K*	TWA: 1 ppm TWA: 2.4 mg/m ³	TWA: 1 ppm TWA: 2.4 mg/m ³
Ethylene oxide 75-21-8	TWA: 1 ppm TWA: 1.8 mg/m ³ Cutânea*	TWA: 1 ppm TWA: 1.8 mg/m ³	TWA: 1 ppm TWA: 2 mg/m ³ STEL: 5 ppm	TWA: 1 ppm TWA: 1.8 mg/m ³ K*	TWA: 1 ppm TWA: 1.8 mg/m ³ vía dérmica*

			STEL: 10 mg/m³ K*		
Ethylbenzene 100-41-4	TWA: 100 ppm TWA: 442 mg/m³ STEL: 200 ppm STEL: 884 mg/m³ Cutânea*	TWA: 100 ppm TWA: 442 mg/m³ STEL: 200 ppm STEL: 884 mg/m³ P*	TWA: 100 ppm TWA: 442 mg/m³ K* Ceiling: 884 mg/m³	TWA: 100 ppm TWA: 442 mg/m³ STEL: 200 ppm STEL: 884 mg/m³ K*	TWA: 100 ppm TWA: 441 mg/m³ STEL: 200 ppm STEL: 884 mg/m³ vía dérmica*
Benzene 71-43-2	TWA: 1 ppm TWA: 3.25 mg/m³ STEL: 2.5 ppm Cutânea*	TWA: 1 ppm TWA: 3.25 mg/m³ P*	TWA: 1.0 ppm TWA: 3.25 mg/m³ STEL: 5.0 ppm STEL: 16.25 mg/m³ K*	TWA: 1 ppm TWA: 3.25 mg/m³ K*	TWA: 1 ppm TWA: 3.25 mg/m³ vía dérmica*
1,4-dioxane 123-91-1	TWA: 20 ppm TWA: 73 mg/m³ Cutânea*	TWA: 20 ppm TWA: 73 mg/m³ P*	TWA: 20 ppm TWA: 73 mg/m³ Ceiling: 146 mg/m³	TWA: 20 ppm TWA: 73 mg/m³ STEL: 146 mg/m³ STEL: 40 ppm K*	TWA: 20 ppm TWA: 73 mg/m³
Chemical name	Sweden		Switzerland		United Kingdom
Hydrogenated base oil 8042-47-5	-		TWA: 5 mg/m³		-
Ethyl acrylate 140-88-5	NGV: 5 ppm NGV: 20 mg/m³ Bindande KGV: 10 ppm Bindande KGV: 40 mg/m³ S+		S+ TWA: 2.5 ppm TWA: 10 mg/m³ STEL: 10 ppm STEL: 42 mg/m³		TWA: 5 ppm TWA: 21 mg/m³ STEL: 10 ppm STEL: 42 mg/m³
Phosphoric acid 7664-38-2	NGV: 1 mg/m³ Bindande KGV: 2 mg/m³		TWA: 2 mg/m³ STEL: 4 mg/m³		TWA: 1 mg/m³ STEL: 2 mg/m³
Butan-1-ol 71-36-3	NGV: 15 ppm NGV: 45 mg/m³ Bindande KGV: 30 ppm Bindande KGV: 90 mg/m³ H*		TWA: 100 ppm TWA: 310 mg/m³ STEL: 100 ppm STEL: 310 mg/m³		STEL: 50 ppm STEL: 154 mg/m³ Sk*
Xylene 1330-20-7	NGV: 50 ppm NGV: 221 mg/m³ Bindande KGV: 100 ppm Bindande KGV: 442 mg/m³ H*		TWA: 50 ppm TWA: 220 mg/m³ STEL: 100 ppm STEL: 440 mg/m³ H*		TWA: 50 ppm TWA: 220 mg/m³ STEL: 100 ppm STEL: 441 mg/m³ Sk*
Phenol, 2,6-bis(1,1-dimethylethyl)-4-met hyl- 128-37-0	-		TWA: 10 mg/m³ STEL: 40 mg/m³		TWA: 10 mg/m³ STEL: 30 mg/m³
Phenol 108-95-2	NGV: 1 ppm NGV: 4 mg/m³ Bindande KGV: 4 ppm Bindande KGV: 16 mg/m³ H*		TWA: 5 ppm TWA: 19 mg/m³ STEL: 5 ppm STEL: 19 mg/m³ H*		TWA: 2 ppm TWA: 7.8 mg/m³ STEL: 4 ppm STEL: 16 mg/m³ Sk*
Naphthalene 91-20-3	NGV: 10 ppm NGV: 50 mg/m³ Vägledande KGV: 15 ppm Vägledande KGV: 80 mg/m³		TWA: 10 ppm TWA: 50 mg/m³ H*		-
Methyloxirane 75-56-9	NGV: 1 ppm NGV: 2.4 mg/m³ Bindande KGV: 5 ppm Bindande KGV: 12,5 mg/m³ S+		TWA: 2.5 ppm TWA: 6 mg/m³		TWA: 1 ppm TWA: 2.4 mg/m³ STEL: 3 ppm STEL: 7.2 mg/m³
Ethylene oxide 75-21-8	NGV: 1 ppm NGV: 1.8 mg/m³ Bindande KGV: 5 ppm Bindande KGV: 9 mg/m³		TWA: 1 ppm TWA: 1.8 mg/m³ H*		TWA: 1 ppm TWA: 1.8 mg/m³ STEL: 3 ppm STEL: 5.4 mg/m³

	H*		Sk*
Ethylbenzene 100-41-4	NGV: 50 ppm NGV: 220 mg/m ³ Bindande KGV: 200 ppm Bindande KGV: 884 mg/m ³ H*	TWA: 50 ppm TWA: 220 mg/m ³ STEL: 50 ppm STEL: 220 mg/m ³ H*	TWA: 100 ppm TWA: 441 mg/m ³ STEL: 125 ppm STEL: 552 mg/m ³ Sk*
Benzene 71-43-2	NGV: 0.5 ppm NGV: 1.5 mg/m ³ Bindande KGV: 3 ppm Bindande KGV: 9 mg/m ³ H*	TWA: 0.2 ppm TWA: 0.7 mg/m ³ H*	TWA: 1 ppm TWA: 3.25 mg/m ³ STEL: 3 ppm STEL: 9.75 mg/m ³ Sk*
1,4-dioxane 123-91-1	NGV: 10 ppm NGV: 35 mg/m ³ Vägledande KGV: 25 ppm Vägledande KGV: 90 mg/m ³	TWA: 20 ppm TWA: 72 mg/m ³ STEL: 40 ppm STEL: 144 mg/m ³ H*	TWA: 20 ppm TWA: 73 mg/m ³ STEL: 60 ppm STEL: 219 mg/m ³ Sk*

Biological occupational exposure limits

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Xylene 1330-20-7	-	1.5 g/L (urine - Methylhippuric acid after end of work day, at the end of a work week/end of the shift)	-	1.50 mg/L - blood (Xylene) - at the end of the work shift 1.50 g/g Creatinine - urine (Methylhippuric acid) - at the end of the work shift	820 µmol/mmol Creatinine (urine - Methylhippuric acid end of shift) 1400 mg/g Creatinine (urine - Methylhippuric acid end of shift)
Phenol 108-95-2	-	-	200 µg/L - urine (Phenol) - at the end of exposure or end of work shift	120 mg/g Creatinine - urine (Phenol) - at the end of the work shift	360 µmol/mmol Creatinine (urine - Phenol end of shift) 300 mg/g Creatinine (urine - Phenol end of shift)
Methyloxirane 75-56-9	-	-	-	1.3 nmol/g Globin from Hb - blood (N-(3-Hydroxypropyl)valine) - after at least 3 months of exposure	-
Ethylene oxide 75-21-8	-	-	-	-	1.9 nmol/g of Globin (blood - N-(2-Hydroxyethyl)valine discretionary) 0.3 µg/g of Globin (blood - N-(2-Hydroxyethyl)valine discretionary)
Ethylbenzene 100-41-4	-	-	2000 mg/g Creatinine - urine (Mandelic acid and Phenylglyoxylic acid - total) - at the end of exposure or end of work shift	1.50 mg/L - blood (Ethylbenzene) - during exposure 1.50 g/g Creatinine - urine (Mandelic acid) - at the end of the work shift and at the end of the working week	1100 µmol/mmol Creatinine (urine - Mandelic acid end of shift) 1500 mg/g Creatinine (urine - Mandelic acid end of shift)
Benzene	-	10 g/dL Hemoglobin	2.0 mg/L - urine	28 µg/L - blood	0.024 µmol/mmol

71-43-2		(blood - by the first screening and once yearly or for work in cokery plants every six months) 12 g/dL Hemoglobin (blood - by the first screening and once yearly or for work in cokery plants every six months) 79 - 97 fL mean corpuscular volume (blood - by the first screening and once yearly or for work in cokery plants every six months) 3.8 million/μL Erythrocytes (blood - by the first screening and once yearly or for work in cokery plants every six months) 3.2 million/μL Erythrocytes (blood - by the first screening and once yearly or for work in cokery plants every six months) 13000 Leukocytes/μL (blood - by the first screening and once yearly or for work in cokery plants every six months) 4000 Leukocytes/μL (blood - by the first screening and once yearly or for work in cokery plants every six months) 130000 Thrombocytes/μL (blood - by the first screening and once yearly or for work in cokery plants every six months) 150000 Thrombocytes/μL (blood - by the first screening and once yearly or for work in cokery plants every six months) 1.6 mg/L (urine -	(Trans, trans-Muconic acid) - at the end of exposure or end of work shift 0.045 mg/g Creatinine - urine (S-Phenyl Mercapturic acid) - at the end of exposure or end of work shift	(Benzene) - right at the end of the work shift 46 μg/g Creatinine - urine (S-Phenylmercapturic acid) - at the end of the work shift	Creatinine (urine - S-Phenylmercapturic acid end of shift) 0.05 mg/g Creatinine (urine - S-Phenylmercapturic acid end of shift) 1.2 μmol/mmol Creatinine (urine - trans,trans-Muconic acid end of shift) 1.5 mg/g Creatinine (urine - trans,trans-Muconic acid end of shift)
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		t,t-Muconic acid after end of work day, at the end of a work week/end of the shift)			
Chemical name	Denmark	Finland	France	Germany DFG	Germany TRGS
Butan-1-ol 71-36-3	-	-	-	10 mg/g Creatinine (urine - 1-Butanol (after hydrolysis) end of shift) 2 mg/g Creatinine (urine - 1-Butanol (after hydrolysis) before beginning of next shift) 2 mg/g Creatinine - BAT (at the beginning of the next shift) urine 10 mg/g Creatinine - BAT (end of exposure or end of shift) urine	10 mg/g Creatinine (urine - 1-Butanol (after hydrolysis) end of shift) 2 mg/g Creatinine (urine - 1-Butanol (after hydrolysis) before beginning of next shift)
Xylene 1330-20-7	-	5.0 mmol/L (urine - Methylhippuric acid after the shift)	1500 mg/g creatinine - urine (Methylhippuric acid) - end of shift	2000 mg/L (urine - Methylhippuric(tolur-)acid (all isomers) end of shift) 2000 mg/L - BAT (end of exposure or end of shift) urine	2000 mg/L (urine - Methylhippuric(tolur-)acid (all isomers) end of shift)
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- 128-37-0	-	-	-	7 µg/L - BAR (end of exposure or end of shift) urine	-
Phenol 108-95-2	-	1.3 mmol/L (urine - Total phenol after the shift)	250 mg/g creatinine - urine (Total Phenol) - end of shift	120 mg/g Creatinine (urine - Phenol (after hydrolysis) end of shift) 200 mg/L - BLW (end of exposure or end of shift) urine	120 mg/g Creatinine (urine - Phenol (after hydrolysis) end of shift)
Naphthalene 91-20-3	-	-	-	35 µg/L - BAR (end of exposure or end of shift) urine 35 µg/L - BAR (for long-term exposures: at the end of the shift after several shifts) urine 4000 µg/L - (end of exposure or end of shift) - urine 13500 µg/L - (end of exposure or end of shift) - urine 23300 µg/L - (end of exposure or end of shift) - urine 34200 µg/L - (end of exposure or end of shift) - urine	-

				of shift) - urine 30 µg/L - (end of exposure or end of shift) - urine 60 µg/L - (end of exposure or end of shift) - urine 175 µg/L - (end of exposure or end of shift) - urine 280 µg/L - (end of exposure or end of shift) - urine 390 µg/L - (end of exposure or end of shift) - urine 220 µg/L - (end of exposure or end of shift) - urine 500 µg/L - (end of exposure or end of shift) - urine 1500 µg/L - (end of exposure or end of shift) - urine 2300 µg/L - (end of exposure or end of shift) - urine 3300 µg/L - (end of exposure or end of shift) - urine	
Methyloxirane 75-56-9	-	-	-	2500 pmol/g Globin (erythrocytes - N-(2-Hydroxypropyl) valine after at least 3 months exposure) 2500 pmol/g Globin - BAT (after exposure for at least 3 months) erythrocytes 10 pmol/g Globin - BAR (after exposure for at least 3 months) erythrocytes 25 µg/g Creatinine - BAR (end of exposure or end of shift) urine 25 µg/g Creatinine - BAR (for long-term exposures: at the end of the shift after several shifts) urine 600 pmol/g Globin - (after exposure for at least 3 months) - erythrocyte fraction of whole blood 1300 pmol/g Globin - (after exposure for at	2500 pmol/g Globin (erythrocytes - N-(2-Hydroxypropyl) valine after at least 3 months exposure)

				least 3 months) - erythrocyte fraction of whole blood 2600 pmol/g Globin - (after exposure for at least 3 months) - erythrocyte fraction of whole blood 3200 pmol/g Globin - (after exposure for at least 3 months) - erythrocyte fraction of whole blood	
Ethylene oxide 75-21-8	-	-	-	60 pmol/g Globin - BAR (after exposure for at least 3 months) erythrocytes 5 µg/g Creatinine - BAR (end of exposure or end of shift) urine 5 µg/g Creatinine - BAR (for long-term exposures: at the end of the shift after several shifts) urine 45 µg/L whole blood - (after exposure for at least 3 months) - erythrocyte fraction of whole blood 90 µg/L whole blood - (after exposure for at least 3 months) - erythrocyte fraction of whole blood 180 µg/L whole blood - (after exposure for at least 3 months) - erythrocyte fraction of whole blood	-
Ethylbenzene 100-41-4	-	5.2 mmol/L (urine - Mandelic acid after the shift after a working week or exposure period)	1500 mg/g creatinine - urine (Mandelic acid) - end of shift at end of workweek	250 mg/g Creatinine (urine - Mandelic acid plus Phenylglyoxylic acid end of shift) 250 mg/g Creatinine - BAT (end of exposure or end of shift) urine 130 mg/g Creatinine - (end of exposure or end of shift) - urine 250 mg/g Creatinine - (end of exposure or end of shift) - urine 330 mg/g Creatinine	250 mg/g Creatinine (urine - Mandelic acid plus Phenylglyoxylic acid end of shift)

				- (end of exposure or end of shift) - urine 670 mg/g Creatinine - (end of exposure or end of shift) - urine 1300 mg/g Creatinine - (end of exposure or end of shift) - urine	
Benzene 71-43-2	-	-	5 mg/L - urine (Muconic acid) - end of shift	0.3 µg/g Creatinine - BAR (end of exposure or end of shift) urine 150 µg/g Creatinine - BAR (end of exposure or end of shift) urine 0.3 µg/L - BAR (end of exposure or end of shift) urine 0.5 µg/L - (end of exposure or end of shift) - urine 0.8 µg/L - (end of exposure or end of shift) - urine 1.5 µg/L - (end of exposure or end of shift) - urine 2.75 µg/L - (end of exposure or end of shift) - urine 5.0 µg/L - (end of exposure or end of shift) - urine 7.5 µg/L - (end of exposure or end of shift) - urine 12.5 µg/L - (end of exposure or end of shift) - urine 300 µg/g Creatinine - (end of exposure or end of shift) - urine 500 µg/g Creatinine - (end of exposure or end of shift) - urine 750 µg/g Creatinine - (end of exposure or end of shift) - urine 1200 µg/g Creatinine - (end of exposure or end of shift) - urine 1.5 µg/g Creatinine - (end of exposure or end of shift) - urine 3 µg/g Creatinine -	-

				(end of exposure or end of shift) - urine 5 µg/g Creatinine - (end of exposure or end of shift) - urine 12 µg/g Creatinine - (end of exposure or end of shift) - urine 25 µg/g Creatinine - (end of exposure or end of shift) - urine 45 µg/g Creatinine - (end of exposure or end of shift) - urine 90 µg/g Creatinine - (end of exposure or end of shift) - urine	
1,4-dioxane 123-91-1	-	-	-	200 mg/g Creatinine (urine - 2-Hydroxyethoxyacetic acid end of shift) 200 mg/g Creatinine - BAT (end of exposure or end of shift) urine	200 mg/g Creatinine (urine - 2-Hydroxyethoxyacetic acid end of shift)
Chemical name	Hungary	Ireland	Italy MDLPS	Italy AIDII	
Xylene 1330-20-7	1500 mg/g Creatinine (urine - Methyl hippuric acid end of shift) 860 µmol/mmol Creatinine (urine - Methyl hippuric acid end of shift)	1.5 g/g Creatinine (urine - Methylhippuric acids end of shift)	-	1.5 g/g Creatinine - urine (Methylhippuric acid) - end of shift	
Phenol 108-95-2	120 mg/g Creatinine (urine - Phenol end of shift) 144 µmol/mmol Creatinine (urine - Phenol end of shift)	120 mg/g Creatinine (urine - Phenol end of shift)	-	250 mg/g Creatinine - urine (Phenol (with hydrolysis)) - end of shift	
Naphthalene 91-20-3	-	-	-	- () - end of shift	
Methyloxirane 75-56-9	-	3 nmol/g globin in blood hemoglobin (blood - N-(3-Hydroxypropyl) valine)	-	-	
Ethylene oxide 75-21-8	-	-	-	5000 pmol HEV/g globin - blood (N-(2-Hydroxyethyl)valine (HEV) hemoglobin adducts) - not critical 5 µg HEMA/g Creatinine - urine (S-(2-Hydroxyethyl)mercaptopuric acid (HEMA)) - end of shift	
Ethylbenzene 100-41-4	1500 mg/g Creatinine (urine - Mandelic acid at end of workweek, end of shift) 1110 µmol/mmol Creatinine (urine -	0.7 g/g Creatinine (urine - sum of Mandelic acid and Phenylglyoxylic acid end of shift at end of workweek) 0.7 g (end-exhaled air -	-	0.15 g/g Creatinine - urine (Sum of Mandelic acid and Phenylglyoxylic acid) - end of shift at end of workweek	

	Mandelic acid at end of workweek, end of shift)	not critical)		
Benzene 71-43-2	0.04 mg/g Creatinine (urine - s-Phenyl mercapturic acid end of shift) 0.22 µmol/mmol Creatinine (urine - s-Phenyl mercapturic acid end of shift)	25 µg/g Creatinine (urine - s-Phenylmercapturic acid end of shift) 500 µg/g Creatinine (urine - t,t-Muconic acid end of shift)	-	25 µg/g Creatinine - urine (S-Phenylmercapturic acid) - end of shift 500 µg/g Creatinine - urine (t,t-Muconic acid) - end of shift
Chemical name	Latvia	Luxembourg	Romania	Slovakia
Butan-1-ol 71-36-3	-	-	-	2 mg/g creatinine (urine - n-Butyl alcohol after all work shifts) 10 mg/g creatinine (urine - n-Butyl alcohol end of exposure or work shift)
Xylene 1330-20-7	-	-	3 g/L - urine (Methylhippuric acid) - end of shift	1.5 mg/L (blood - Xylene end of exposure or work shift) 2000 mg/L (urine - Methylhippuric acid end of exposure or work shift)
Phenol 108-95-2	-	-	120 mg/g Creatinine - urine (total Phenol) - end of shift	200 mg/L (urine - Phenol end of exposure or work shift)
Ethylbenzene 100-41-4	-	-	1.5 g/g Creatinine - urine (Mandelic acid) - end of work week	12 mg/L (urine - 2 and 4-Ethylphenol end of exposure or work shift) 1600 mg/L (urine - Mandelic acid and Phenylglycolic acid end of exposure or work shift)
Benzene 71-43-2	46 µg/g Creatinine - urine (Phenol) - end of shift 28 µg/L - blood () - end of shift	-	25 µg/g Creatinine - urine (S-Phenylmercapturic acid) - end of shift 500 µg/g Creatinine - urine (Trans, trans-muconic acid) - end of shift 50 mg/L - urine (total Phenols) - end of shift	-
Chemical name	Slovenia	Spain	Switzerland	United Kingdom
Butan-1-ol 71-36-3	2 mg/g Creatinine - urine (1-Butanol (after hydrolysis)) - before the work shift 10 mg/g Creatinine - urine (1-Butanol (after hydrolysis)) - at the end of the work shift	-	10 mg/g creatinine (urine - n-Butanol end of shift) 2 mg/g creatinine (urine - n-Butanol before subsequent shift or 16 hour)	-
Xylene 1330-20-7	2 g/L - urine (Methylhippuric acid (all isomers)) - at the end of the work shift	1 g/g Creatinine (urine - Methylhippuric acids end of shift)	2 g/L (urine - Methylhippuric acid end of shift)	650 mmol/mol creatinine - urine (Methyl hippuric acid) - post shift
Phenol 108-95-2	120 mg/g Creatinine - urine (Phenol (after hydrolysis)) - at the end of the work shift	120 mg/g Creatinine (urine - end of shift)	250 mg/g creatinine (urine - Phenol end of shift) 300.5 µmol/mmol creatinine (urine - Phenol	-

			end of shift)	
Methyloxirane 75-56-9	-	-	3200 pmol/g globin (erythrocytes - N-(2-Hydroxypropyl)valine no restrictions)	-
Ethylene oxide 75-21-8	3900 pmol/g Globin - erythrocyte fraction of the whole blood (N-(2-Hydroxyethyl)valine) - after a minimum of 3 months exposure	-	-	-
Ethylbenzene 100-41-4	250 mg/g Creatinine - urine (Mandelic acid and Phenylglyoxylic acid) - at the end of the work shift	700 mg/g Creatinine (urine - Mandelic acid plus Phenylglyoxylic acid end of workweek)	600 mg/g creatinine (urine - Mandelic acid and Phenylglyoxylacid end of shift)	-
Benzene 71-43-2	5 µg/L - urine (Benzene) - at the end of the work shift 0.025 mg/g Creatinine - urine ((S)-Phenylmercapturic acid) - at the end of the work shift 500 µg/g Creatinine - urine (trans, trans-Muconic acid) - at the end of the work shift	0.045 mg/g Creatinine (urine - S-Phenyl mercapturic acid end of exposure or end of shift) 2 mg/L (urine - trans, trans-Muconic acid end of exposure or end of shift)	8 µg/g creatinine (urine - S-Phenyl-mercapturic acid end of shift) 0.004 µmol/mmol creatinine (urine - S-Phenyl-mercapturic acid end of shift)	-
1,4-dioxane 123-91-1	400 mg/g Creatinine - urine (2-Hydroxyethoxyacetic acid) - at the end of the work shift	-	400 mg/g creatinine (urine - 2-Hydroxy-ethoxyacetic acid end of shift) 378 µmol/mmol creatinine (urine - 2-Hydroxy-ethoxyacetic acid end of shift)	-

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
Hydrogenated base oil 64742-54-7	-	0.97 mg/kg bw/day [4] [6]	2.73 mg/m³ [4] [6] 5.58 mg/m³ [5] [6]
Diisodecyl adipate 27178-16-1	-	15 mg/kg bw/day [4] [6]	2.8 mg/m³ [4] [6]
Hydrogenated base oil 8042-47-5	-	217.05 mg/kg bw/day [4] [6]	164.56 mg/m³ [4] [6]
Bis(2-ethylhexyl) hydrogen phosphate 298-07-7	-	0.5 mg/kg bw/day [4] [6] 0.5 mg/kg bw/day [4] [7]	3.52 mg/m³ [4] [6] 3.52 mg/m³ [4] [7] 1 mg/m³ [5] [6] 1 mg/m³ [5] [7]
Hydrogenated base oil 72623-86-0	-	0.97 mg/kg bw/day [4] [6]	2.73 mg/m³ [4] [6] 5.58 mg/m³ [5] [6]
Ethyl acrylate 140-88-5	-	0.92 mg/cm² [5] [7]	21 mg/m³ [5] [6]
Butan-1-ol 71-36-3	-	-	310 mg/m³ [5] [6]
Ethylene oxide 75-21-8	-	-	10 mg/m³ [4] [7]
Methyloxirane 75-56-9	-	-	2.4 mg/m³ [5] [6] 170 mg/m³ [5] [7]
Naphthalene	-	3.57 mg/kg bw/day [4] [6]	25 mg/m³ [4] [6]

Chemical name	Oral	Dermal	Inhalation
91-20-3			25 mg/m ³ [5] [6]
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- 128-37-0	-	0.5 mg/kg bw/day [4] [6]	3.5 mg/m ³ [4] [6]
Xylene 1330-20-7	-	212 mg/kg bw/day [4] [6]	221 mg/m ³ [4] [6] 442 mg/m ³ [4] [7] 221 mg/m ³ [5] [6] 442 mg/m ³ [5] [7]
Phenol 108-95-2	-	1.23 mg/kg bw/day [4] [6]	8 mg/m ³ [4] [6] 16 mg/m ³ [5] [7]
Ethylbenzene 100-41-4	-	180 mg/kg bw/day [4] [6]	77 mg/m ³ [4] [6] 293 mg/m ³ [5] [7]

Notes

[4]	Systemic health effects.
[5]	Local health effects.
[6]	Long term.
[7]	Short term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
Hydrogenated base oil 64742-54-7	0.74 mg/kg bw/day [4] [6]	-	1.19 mg/m ³ [5] [6]
Diisodecyl adipate 27178-16-1	0.283 mg/kg bw/day [4] [6]	-	0.419 mg/m ³ [4] [6]
Hydrogenated base oil 8042-47-5	25 mg/kg bw/day [4] [6]	-	34.78 mg/m ³ [4] [6]
Bis(2-ethylhexyl) hydrogen phosphate 298-07-7	0.25 mg/kg bw/day [4] [6] 0.25 mg/kg bw/day [4] [7]	0.25 mg/kg bw/day [4] [6] 0.25 mg/kg bw/day [4] [7]	0.87 mg/m ³ [4] [6] 0.87 mg/m ³ [4] [7]
Hydrogenated base oil 72623-86-0	0.74 mg/kg bw/day [4] [6]	-	1.19 mg/m ³ [5] [6]
Ethyl acrylate 140-88-5	-	0.92 mg/cm ² [5] [7]	2.5 mg/m ³ [5] [6]
Butan-1-ol 71-36-3	1.5625 mg/kg bw/day [4] [6]	-	55.357 mg/m ³ [4] [6] 155 mg/m ³ [5] [6]
Methyloxirane 75-56-9	-	-	0.6 mg/m ³ [5] [6] 170 mg/m ³ [5] [7]
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- 128-37-0	-	-	0.86 mg/m ³ [4] [6]
Xylene 1330-20-7	12.5 mg/kg bw/day [4] [6]	-	65.3 mg/m ³ [4] [6] 260 mg/m ³ [4] [7] 65.3 mg/m ³ [5] [6] 260 mg/m ³ [5] [7]
Phenol 108-95-2	0.4 mg/kg bw/day [4] [6]	-	1.32 mg/m ³ [4] [6]
Ethylbenzene 100-41-4	1.6 mg/kg bw/day [4] [6]	-	15 mg/m ³ [4] [6]

Notes

[4]	Systemic health effects.
[5]	Local health effects.
[6]	Long term.
[7]	Short term.

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Bis(2-ethylhexyl) hydrogen phosphate 298-07-7	0.412 mg/L	0.3 mg/L	0.0412 mg/L	-	-
Ethyl acrylate 140-88-5	0.00272 mg/L	0.011 mg/L	0.00027 mg/L	-	-
Butan-1-ol 71-36-3	0.082 mg/L	2.25 mg/L	0.0082 mg/L	-	-
Ethylene oxide 75-21-8	0.084 mg/L	0.84 mg/L	0.0084 mg/L	-	-
Methyloxirane 75-56-9	0.052 mg/L	0.52 mg/L	0.0052 mg/L	-	-
Naphthalene 91-20-3	2.4 µg/L	20 µg/L	2.4 µg/L	-	-
Phenol, 2,6-bis(1,1-dimethylethyl)- 4-methyl- 128-37-0	0.199 µg/L	1.99 µg/L	0.0199 µg/L	-	-
Xylene 1330-20-7	0.327 mg/L	0.327 mg/L	0.327 mg/L	-	-
Phenol 108-95-2	0.0077 mg/L	0.031 mg/L	0.00077 mg/L	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Hydrogenated base oil 64742-54-7	-	-	-	-	9.33 mg/kg food
Bis(2-ethylhexyl) hydrogen phosphate 298-07-7	11.82 mg/kg sediment dw	1.18 mg/kg sediment dw	19.6 mg/L	2.12 mg/kg soil dw	-
Hydrogenated base oil 72623-86-0	-	-	-	-	9.33 mg/kg food
Ethyl acrylate 140-88-5	0.0213 mg/kg sediment dw	0.0213 mg/kg sediment dw	10 mg/L	1 mg/kg soil dw	0.01 g/kg food
Butan-1-ol 71-36-3	0.324 mg/kg sediment dw	0.0324 mg/kg sediment dw	2476 mg/L	0.0166 mg/kg soil dw	-
Ethylene oxide 75-21-8	0.329 mg/kg sediment dw	0.0329 mg/kg sediment dw	13 mg/L	0.0165 mg/kg soil dw	-
Methyloxirane 75-56-9	0.245 mg/kg sediment dw	0.0245 mg/kg sediment dw	10 mg/L	0.0186 mg/kg soil dw	-
Naphthalene 91-20-3	67.2 µg/kg sediment dw	67.2 µg/kg sediment dw	2.9 mg/L	53.3 µg/kg soil dw	-
Phenol, 2,6-bis(1,1-dimethylethyl)- 4-methyl- 128-37-0	99.6 µg/kg sediment dw	9.96 µg/kg sediment dw	0.17 mg/L	47.69 µg/kg soil dw	8.33 mg/kg food
Xylene 1330-20-7	12.46 mg/kg sediment dw	12.46 mg/kg sediment dw	6.58 mg/L	2.31 mg/kg soil dw	-
Phenol 108-95-2	0.0915 mg/kg sediment dw	0.00915 mg/kg sediment dw	2.1 mg/L	0.136 mg/kg soil dw	-

8.2. Exposure controls

Engineering controls	If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Use only appropriately classified electrical equipment.
Personal protective equipment	
Eye/face protection	If there is a risk of contact: Eye protection must conform to standard EN 166. Wear safety glasses with side shields (or goggles).
Hand protection	If there is a risk of contact: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. Gloves must conform to standard EN 374. Wear suitable gloves.
Skin and body protection	If there is a risk of contact: Wear suitable protective clothing. (EN ISO 6529).
Respiratory protection	Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material.
General hygiene considerations	Wash face, hands and any exposed skin thoroughly after handling.
Environmental exposure controls	Avoid release to the environment. Do not allow into any sewer, on the ground or into any body of water. Local authorities should be advised if significant spillages cannot be contained.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Appearance	
Physical state	Liquid
Colour	Yellow to Light amber
Odour	Mild Sulphur
Odour threshold	No information available

Property	Values	Remarks • Method
Melting point / freezing point		No data available
Initial boiling point and boiling range		No data available
Flammability		No data available
Flammability Limit in Air		
Upper flammability or explosive limits		No data available
Lower flammability or explosive limits		No data available
Flash point	228°C	Cleveland Open Cup ASTM D 92
Autoignition temperature		No data available
Decomposition temperature		No data available
pH		No data available
pH (as aqueous solution)		No data available
Kinematic viscosity	190.3 cSt @ 40°C 20.7 cSt @ 100°C	ASTM D445
Dynamic viscosity		No data available
Water solubility		No data available
Solubility(ies)		No data available
Partition coefficient		No data available
Vapour pressure		No data available

Relative density	0.8724	No data available
Bulk density		No data available
Liquid Density		No data available
Relative vapour density		No data available
Particle characteristics		
Particle Size		No data available
Particle Size Distribution		No data available

9.2. Other information

Pour Point -40°C [ASTM D 97]

9.2.1. Information with regards to physical hazard classes

Not applicable

9.2.2. Other safety characteristics

No information available

Fire Point 242°C (COC) [ASTM D 92]

SECTION 10: Stability and reactivity**10.1. Reactivity**

Reactivity None under normal use conditions.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products Ethers. Miscellaneous decomposition products.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Information on likely routes of exposure****Product Information**

Inhalation Specific test data for the substance or mixture is not available. A single exposure may cause the following adverse effects: Cough, Chest pain. Lung congestion.

Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available. May cause sensitisation by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Causes mild skin irritation.
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	May cause skin irritation in susceptible persons. May cause temporary eye irritation. Itching. Rashes. Hives. Prolonged contact may cause redness and irritation.
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Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document:

ATEmix (dermal)	67,609.40 mg/kg
ATEmix (inhalation-dust/mist)	13.4949 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrogenated base oil 64742-54-7	> 15 g/kg (Rat)	> 5000 mg/kg (Rabbit)	-
Amines, C12-14-tert-alkyl 68955-53-3	= 612 mg/kg (Rat)	= 251 mg/kg (Rat)	= 0.5 mg/L
Hydrogenated base oil 8042-47-5	> 5000 mg/kg (Rat)	-	-
(Z)-Octadec-9-enylamine 112-90-3	= 1689 mg/kg (Rat)	-	-
Ethyl acrylate 140-88-5	= 550 mg/kg (Rat)	= 1790 mg/kg (Rabbit)	= 9.137 mg/L (Rat) 4 h
Phosphoric acid 7664-38-2	= 1530 mg/kg (Rat)	= 2740 mg/kg (Rabbit)	> 850 mg/m ³ (Rat) 1 h
Butan-1-ol 71-36-3	= 700 mg/kg (Rat)	= 3402 mg/kg (Rabbit)	> 8000 ppm (Rat) 4 h
Xylene 1330-20-7	= 3500 mg/kg (Rat)	> 4350 mg/kg (Rabbit)	= 29.08 mg/L (Rat) 4 h
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- 128-37-0	> 6000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Phenol 108-95-2	= 340 mg/kg (Rat)	= 630 mg/kg (Rabbit)	-
Naphthalene 91-20-3	= 1110 mg/kg (Rat)	= 1120 mg/kg (Rabbit)	> 0.4 mg/L (Rat) 4 h
Methyloxirane 75-56-9	= 520 mg/kg (Rat)	= 1244 mg/kg (Rabbit)	= 9.48 mg/L (Rat) 4 h
Ethylene oxide 75-21-8	= 72 mg/kg (Rat)	-	= 800 ppm (Rat) 4 h
Ethylbenzene 100-41-4	= 3500 mg/kg (Rat)	= 15400 mg/kg (Rabbit)	= 17.4 mg/L (Rat) 4 h
Benzene 71-43-2	> 2000 mg/kg (Rat)	> 8200 mg/kg (Rabbit)	= 44.66 mg/L (Rat) 4 h
1,4-dioxane 123-91-1	= 5170 mg/kg (Rat)	= 7600 mg/kg (Rabbit)	= 46 mg/L (Rat) 2 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Causes mild skin irritation.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Component Information	
Amines, C12-14-tert-alkyl (68955-53-3)	
Method	OECD 405
Species	Rabbit
Exposure route	Eye
Effective dose	0.1 mL
Exposure time	30 seconds
Results	Eye Damage

Respiratory or skin sensitisation May cause an allergic skin reaction.

Component Information	
Amines, C12-14-tert-alkyl (68955-53-3)	
Method	OECD Test No. 406: Skin Sensitisation
Species	Guinea pig
Exposure route	Dermal
Results	Sensitising

Germ cell mutagenicity Based on available data, the classification criteria are not met.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as mutagenic.

Chemical name	European Union
Phenol	Muta. 2
Methyloxirane	Muta. 1B
Ethylene oxide	Muta. 1B
Benzene	Muta. 1B

Carcinogenicity The supplier declares that it can be shown that the substance(s) contain less than 3% DMSO extract as measured by IP 346.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	European Union
Hydrogenated base oil	Not classified
Naphthalene	Carc. 2
Methyloxirane	Carc. 1B
Ethylene oxide	Carc. 1B
Benzene	Carc. 1A
1,4-dioxane	Carc. 1B

Reproductive toxicity Based on available data, the classification criteria are not met.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Chemical name	European Union
Ethylene oxide	Repr. 1B

STOT - single exposure Based on available data, the classification criteria are not met.

STOT - repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Due to the viscosity, this product does not present an aspiration hazard.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Harmful to aquatic life with long lasting effects.

Unknown aquatic toxicity Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Hydrogenated base oil 64742-54-7	-	LC50: >5000mg/L (96h, <i>Oncorhynchus mykiss</i>)	-	EC50: >1000mg/L (48h, <i>Daphnia magna</i>)
Amines, C12-14-tert-alkyl 68955-53-3	-	LC50: =1.3mg/L (96h, <i>Oncorhynchus mykiss</i>)	-	-
Hydrogenated base oil 8042-47-5	-	LC50: >10000mg/L (96h, <i>Lepomis macrochirus</i>)	-	-
Ethyl acrylate 140-88-5	EC50: =48mg/L (72h, <i>Desmodesmus subspicatus</i>)	LC50: 10.0 - 22.0mg/L (96h, <i>Leuciscus idus</i>)	-	EC50: =7.9mg/L (48h, <i>Daphnia magna</i>)
Butan-1-ol 71-36-3	EC50: >500mg/L (96h, <i>Desmodesmus subspicatus</i>) EC50: >500mg/L (72h, <i>Desmodesmus subspicatus</i>)	LC50: 1730 - 1910mg/L (96h, <i>Pimephales promelas</i>) LC50: =1740mg/L (96h, <i>Pimephales promelas</i>) LC50: 100000 - 500000µg/L (96h, <i>Lepomis macrochirus</i>) LC50: =1910000µg/L (96h, <i>Pimephales promelas</i>)	-	EC50: =1983mg/L (48h, <i>Daphnia magna</i>) EC50: 1897 - 2072mg/L (48h, <i>Daphnia magna</i>)
Xylene 1330-20-7	-	LC50: =13.4mg/L (96h, <i>Pimephales promelas</i>)	-	EC50: =3.82mg/L (48h, water flea) LC50: =0.6mg/L (48h, <i>Gammarus lacustris</i>)
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- 128-37-0	EC50: >0.42mg/L (72h, <i>Desmodesmus subspicatus</i>)	-	-	-
Phenol 108-95-2	EC50: =46.42mg/L (96h, <i>Pseudokirchneriella subcapitata</i>) EC50: 0.0188 - 0.1044mg/L (96h, <i>Pseudokirchneriella</i>)	LC50: 11.9 - 50.5mg/L (96h, <i>Pimephales promelas</i>) LC50: 20.5 - 25.6mg/L (96h, <i>Pimephales promelas</i>) LC50: =32mg/L (96h,	-	EC50: 4.24 - 10.7mg/L (48h, <i>Daphnia magna</i>) EC50: 10.2 - 15.5mg/L (48h, <i>Daphnia magna</i>)

	subcapitata) EC50: 187 - 279mg/L (72h, <i>Desmodesmus subspicatus</i>)	<i>Pimephales promelas</i>) LC50: 5.449 - 6.789mg/L (96h, <i>Oncorhynchus mykiss</i>) LC50: 7.5 - 14mg/L (96h, <i>Oncorhynchus mykiss</i>) LC50: 4.23 - 7.49mg/L (96h, <i>Oncorhynchus mykiss</i>) LC50: 5.0 - 12.0mg/L (96h, <i>Oncorhynchus mykiss</i>) LC50: =13.5mg/L (96h, <i>Lepomis macrochirus</i>) LC50: 11.9 - 25.3mg/L (96h, <i>Lepomis macrochirus</i>) LC50: =11.5mg/L (96h, <i>Lepomis macrochirus</i>) LC50: 34.09 - 47.64mg/L (96h, <i>Poecilia reticulata</i>) LC50: =31mg/L (96h, <i>Poecilia reticulata</i>) LC50: =27.8mg/L (96h, <i>Brachydanio rerio</i>) LC50: =0.00175mg/L (96h, <i>Cyprinus carpio</i>) LC50: 33.9 - 43.3mg/L (96h, <i>Oryzias latipes</i>) LC50: 23.4 - 36.6mg/L (96h, <i>Oryzias latipes</i>)		
Naphthalene 91-20-3	-	LC50: 0.91 - 2.82mg/L (96h, <i>Oncorhynchus mykiss</i>)	-	EC50: 1.09 - 3.4mg/L (48h, <i>Daphnia magna</i>)
Methyloxirane 75-56-9	EC50: =240mg/L (96h, <i>Pseudokirchneriella subcapitata</i>)	LC50: =215mg/L (96h, <i>Lepomis macrochirus</i>)	-	EC50: =350mg/L (48h, <i>Daphnia magna</i>)
Ethylene oxide 75-21-8	-	LC50: 73 - 96mg/L (96h, <i>Pimephales promelas</i>)	-	LC50: 137 - 300mg/L (48h, <i>Daphnia magna</i>)
Ethylbenzene 100-41-4	EC50: >438mg/L (96h, <i>Pseudokirchneriella subcapitata</i>)	LC50: 11.0 - 18.0mg/L (96h, <i>Oncorhynchus mykiss</i>)	-	EC50: 1.8 - 2.4mg/L (48h, <i>Daphnia magna</i>)
Benzene 71-43-2	EC50: =29mg/L (72h, <i>Pseudokirchneriella subcapitata</i>)	LC50: =22.49mg/L (96h, <i>Lepomis macrochirus</i>)	-	EC50: =10mg/L (48h, <i>Daphnia magna</i>)
1,4-dioxane 123-91-1	-	LC50: >10000mg/L (96h, <i>Lepomis macrochirus</i>) LC50: =9850mg/L (96h, <i>Pimephales promelas</i>) LC50: 10306 - 14742mg/L (96h, <i>Pimephales promelas</i>)	-	EC50: =163mg/L (48h, water flea)

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation**Component Information**

Chemical name	Partition coefficient
Amines, C12-14-tert-alkyl	2.9
Hydrogenated base oil	6
Ethyl acrylate	1.18
Phosphoric acid	-0.9
Butan-1-ol	1
Xylene	3.15
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-	5.1
Phenol	1.47
Naphthalene	3.4
Methyloxirane	1
Ethylene oxide	-0.3
Ethylbenzene	3.6
Benzene	2.13
1,4-dioxane	-0.42

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
Hydrogenated base oil 64742-54-7	The substance is not PBT / vPvB
Hydrogenated base oil 8042-47-5	The substance is not PBT / vPvB
Ethyl acrylate 140-88-5	The substance is not PBT / vPvB
Phosphoric acid 7664-38-2	The substance is not PBT / vPvB
Butan-1-ol 71-36-3	The substance is not PBT / vPvB
Xylene 1330-20-7	The substance is not PBT / vPvB
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- 128-37-0	The substance is not PBT / vPvB
Phenol 108-95-2	The substance is not PBT / vPvB
Naphthalene 91-20-3	The substance is not PBT / vPvB
Methyloxirane 75-56-9	The substance is not PBT / vPvB
Ethylene oxide 75-21-8	The substance is not PBT / vPvB
Ethylbenzene 100-41-4	The substance is not PBT / vPvB
Benzene 71-43-2	The substance is not PBT / vPvB
1,4-dioxane 123-91-1	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors.

12.7. Other adverse effects

Other adverse effects No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

Waste codes / waste designations according to EWC / AVV According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

IMDG Not regulated

14.1 UN number or ID number Not regulated

14.2 UN proper shipping name Not regulated

14.3 Transport hazard class(es) Not regulated

14.4 Packing group Not applicable

14.5 Environmental hazards Not applicable

14.6 Special Precautions for Users

Special Provisions None

14.7 Maritime transport in bulk according to IMO instruments No information available

RID Not regulated

14.1 UN number Not regulated

14.2 UN proper shipping name Not regulated

14.3 Transport hazard class(es) Not regulated

14.4 Packing group Not applicable

14.5 Environmental hazards Not applicable

14.6 Special Precautions for Users

Special Provisions None

ADR Not regulated

14.1 UN number or ID number Not regulated

14.2 UN proper shipping name Not regulated

14.3 Transport hazard class(es) Not regulated

14.4 Packing group Not applicable

14.5 Environmental hazards Not applicable

14.6 Special Precautions for Users

Special Provisions None

IATA Not regulated

14.1 UN number or ID number Not regulated

14.2 UN proper shipping name Not regulated

14.3 Transport hazard class(es) Not regulated

14.4 Packing group Not applicable

14.5 Environmental hazards Not applicable

14.6 Special Precautions for Users

Special Provisions

None

Note:

None

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****France****Occupational Illnesses (R-463-3, France)**

Chemical name	French RG number
Hydrogenated base oil 8042-47-5	RG 36bis
Ethyl acrylate 140-88-5	RG 65
Butan-1-ol 71-36-3	RG 84
Xylene 1330-20-7	RG 4bis, RG 84
Phenol 108-95-2	RG 14
Ethylene oxide 75-21-8	RG 66
Ethylbenzene 100-41-4	RG 84
Benzene 71-43-2	RG 4, RG 4bis, RG 84
1,4-dioxane 123-91-1	RG 84

Netherlands

Chemical name	Netherlands - List of Carcinogens	Netherlands - List of Mutagens	Netherlands - List of Reproductive Toxins
Xylene	-	-	Development Category 2
Methyloxirane	Present	Present	-
Ethylene oxide	Present	Present	Fertility Category 1B Development Category 2
Benzene	Present	Present	-
1,4-dioxane	Present	-	-

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
Hydrogenated base oil - 64742-54-7	28. 75.	-
(Z)-Octadec-9-enylamine - 112-90-3	75.	-
Ethyl acrylate - 140-88-5	75.	-

Phosphoric acid - 7664-38-2	75.	-
Butan-1-ol - 71-36-3	75.	-
Xylene - 1330-20-7	75.	-
Phenol - 108-95-2	75.	-
Naphthalene - 91-20-3	75.	-
Methyloxirane - 75-56-9	28. 29. 75.	-
Ethylene oxide - 75-21-8	28. 29. 30. 75.	-
Benzene - 71-43-2	72. 5. 28. 29. 75.	-
1,4-dioxane - 123-91-1	75. 28.	-

Persistent Organic Pollutants

Not applicable

Export Notification requirements

This product contains substances which are regulated pursuant to Regulation (EC) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals

Chemical name	European Export/Import Restrictions per (EC) 649/2012 - Annex Number
Ethylene oxide - 75-21-8	I.1 I.3
Benzene - 71-43-2	I.1

Named dangerous substances per Seveso Directive (2012/18/EU)

Chemical name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
Methyloxirane - 75-56-9	5	50
Ethylene oxide - 75-21-8	5	50

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

EU - Plant Protection Products (1107/2009/EC)

Chemical name	EU - Plant Protection Products (1107/2009/EC)
Hydrogenated base oil - 8042-47-5	Plant protection agent

Biocidal Products Regulation (EU) No 528/2012 (BPR)

Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
Ethylene oxide - 75-21-8	Product-type 2: Disinfectants and algicides not intended for direct application to humans or animals

EU - Water Framework Directive (2000/60/EC)

Chemical name	EU - Water Framework Directive (2000/60/EC)
Naphthalene - 91-20-3	Priority substance
Benzene - 71-43-2	Priority substance

EU - Environmental Quality Standards (2008/105/EC)

Chemical name	EU - Environmental Quality Standards (2008/105/EC)
Naphthalene - 91-20-3	Priority substance
Benzene - 71-43-2	Priority substance

International Inventories

Contact supplier for inventory compliance status

15.2. Chemical safety assessment**Chemical Safety Report**

No information available

SECTION 16: Other information**Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under section 3**

EUH019 - May form explosive peroxides
 EUH066 - Repeated exposure may cause skin dryness or cracking
 H220 - Extremely flammable gas
 H224 - Extremely flammable liquid and vapour
 H225 - Highly flammable liquid and vapour
 H226 - Flammable liquid and vapour
 H301 - Toxic if swallowed
 H302 - Harmful if swallowed
 H304 - May be fatal if swallowed and enters airways
 H311 - Toxic in contact with skin
 H312 - Harmful in contact with skin
 H314 - Causes severe skin burns and eye damage
 H315 - Causes skin irritation
 H317 - May cause an allergic skin reaction
 H318 - Causes serious eye damage
 H319 - Causes serious eye irritation
 H330 - Fatal if inhaled
 H331 - Toxic if inhaled
 H332 - Harmful if inhaled
 H335 - May cause respiratory irritation
 H336 - May cause drowsiness or dizziness
 H340 - May cause genetic defects
 H341 - Suspected of causing genetic defects
 H350 - May cause cancer
 H351 - Suspected of causing cancer
 H372 - Causes damage to organs through prolonged or repeated exposure
 H373 - May cause damage to organs through prolonged or repeated exposure
 H400 - Very toxic to aquatic life
 H410 - Very toxic to aquatic life with long lasting effects
 H411 - Toxic to aquatic life with long lasting effects
 H412 - Harmful to aquatic life with long lasting effects

Legend

ATE: Acute Toxicity Estimate
 SVHC: Substances of Very High Concern for Authorisation:
 PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
 vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

Legend Section 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
SCBA	Self-contained breathing apparatus		

Classification procedure

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method

Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
 European Chemicals Agency (ECHA) (ECHA_API)
 EPA (Environmental Protection Agency)
 Acute Exposure Guideline Level(s) (AEGLS)
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 Japan GHS Classification
 Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
 Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
 Organisation for Economic Co-operation and Development Screening Information Data Set
 World Health Organization

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Disclaimer

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End of Safety Data Sheet