



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 08-Jun-2023

Revision Date 08-Jun-2023

Revision Number 1

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

1.1. Product identifier

Product Name Synthetic Manual Transmission & Transaxle Gear Lubricant

Product Code(s) MTG

Synonyms None

Pure substance/mixture Mixture

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

Recommended use Lubricating Oil

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

Chronic aquatic toxicity Category 3 - (H412)

2.2. Label elements

Contains Hydrogenated base oil

Hazard statements

H412 - Harmful to aquatic life with long lasting effects

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

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P308 + P313 - IF exposed or concerned: Get medical advice/attention

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)
Reaction products of 1-decene, hydrogenated 68649-12-7	15-20	No data available	No information available	Asp. Tox. 1 (H304)	-	-	-
Hydrogenated base oil 64742-54-7	1-2	No data available	(649-467-00-8) 265-157-1	Carc. 1B (H350) (*L)	-	-	-
Alkyl dithiophosphate -	0.1-0.5	No data available	No information available	Eye Irrit. 2 (H319) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-	1	1
(Z)-Octadec-9-enylamine 112-90-3	0.1-0.2	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
Octylamine	0.1-0.2	01-211947488	(615-034-00-7)	Flam. Liq. 3	-	1	-

111-86-4		0-31	(615-035-00-2) 203-916-0	(H226) Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 4 (H332) Skin Corr. 1A (H314) Eye Dam. 1 (H318) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)			
Hydrogenated base oil 64742-46-7	0.1-1	No data available	(649-221-00-X) 265-148-2	Carc. 1B (*L)(H350)	-	-	-
Ethane-1,2-diol 107-21-1	0.01-0.1	No data available	(603-027-00-1) 203-473-3	Acute Tox. 4 (H302) STOT RE 2 (H373)	-	-	-
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)	-	-	-
Toluene 108-88-3	< 0.01	-	(601-021-00-3) 203-625-9	Skin Irrit. 2 (H315) Repr. 2 (H361d) STOT SE 3 (H336) STOT RE 2 (H373) Asp. Tox. 1 (H304) Flam. Liq. 2 (H225)	-	-	-
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%	-	-
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
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)			
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)	-	-	-
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%	-	-
Cyclopentadiene 542-92-7	< 0.01	No data available	208-835-4	Flam. Liquid 3 (H226) Acute Tox. 3 (H301) Acute Tox. 3 (H311) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT Single Exp. 3 (H335)	-	-	-
Cumene 98-82-8	< 0.01	No data available	(601-024-00-X) 202-704-5	Carc. 1B (H350) STOT SE 3 (H335) Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411) Flam. Liq. 3 (H226)	-	-	-
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)			
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)	-	-	-

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

Acute 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
Reaction products of 1-decene, hydrogenated 68649-12-7	5005	2002	No data available	No data available	No data available
Hydrogenated base oil 64742-54-7	15015	5005	No data available	No data available	No data available
(Z)-Octadec-9-enylamine 112-90-3	1689	No data available	No data available	No data available	No data available
Octylamine 111-86-4	No data available	200.2	No data available	No data available	No data available
Hydrogenated base oil 64742-46-7	7400	2002	4.6	No data available	No data available
Ethane-1,2-diol 107-21-1	4700	10600	3.7538	No data available	No data available
Xylene 1330-20-7	3500	4354.35	29.08	No data available	No data available
Toluene 108-88-3	2600	12000	12.5	No data available	No data available
Phosphoric acid 7664-38-2	1530	2740	0.2127	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
Naphthalene 91-20-3	1110	1120	0.4004	No data available	No data available
Ethylbenzene 100-41-4	3500	15400	17.4	No data available	No data available
Ethyl acrylate 140-88-5	550	1790	No data available	5.7732	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
Cyclopentadiene 542-92-7	113	No data available	9.75	No data available	No data available
Cumene 98-82-8	1400	10578	No data available	21.557	No data available
Butan-1-ol 71-36-3	700	3402	No data available	24.2762	No data available
Benzene 71-43-2	810	8208.2	44.66	No data available	No data available

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	Get medical attention immediately if symptoms occur. 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 skin with soap and water. Take off contaminated clothing. Get medical attention if irritation develops and persists.
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	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	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Water spray, carbon dioxide (CO ₂), 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. Thermal decomposition can lead to release of irritating gases and vapours.
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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 Ensure adequate ventilation. Use personal protective equipment as required. See section 8 for more information.

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. After cleaning, flush away traces with water.

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 Handle in accordance with good industrial hygiene and safety practice. Avoid contact with used product. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Wash thoroughly after handling.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Do not reuse empty containers. Store away from incompatible materials. See section 10 for more information. Protect from physical damage.

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
Ethane-1,2-diol 107-21-1	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ *	TWA: 10 ppm TWA: 26 mg/m ³ STEL 20 ppm STEL 52 mg/m ³ H*	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ D*	STEL: 40 ppm STEL: 104 mg/m ³ TWA: 52 mg/m ³ TWA: 20 ppm K*	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 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 *
Toluene 108-88-3	TWA: 50 ppm TWA: 192 mg/m ³ *	TWA: 50 ppm TWA: 190 mg/m ³ STEL 100 ppm STEL 380 mg/m ³ H*	TWA: 20 ppm TWA: 77 mg/m ³ STEL: 100 ppm STEL: 384 mg/m ³ D*	STEL: 100 ppm STEL: 384.0 mg/m ³ TWA: 50 ppm TWA: 192.0 mg/m ³ K*	TWA: 50 ppm TWA: 192 mg/m ³ STEL: 100 ppm STEL: 384 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: 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
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
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
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 *
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
Cyclopentadiene 542-92-7	-	TWA: 75 ppm TWA: 200 mg/m ³	TWA: 75 ppm TWA: 206 mg/m ³	TWA: 200.0 mg/m ³	-
Cumene 98-82-8	* STEL: 250 mg/m ³ STEL: 50 ppm TWA: 50 mg/m ³ TWA: 10 ppm	TWA: 10 ppm TWA: 50 mg/m ³ STEL 50 ppm STEL 250 mg/m ³ H*	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ D*	STEL: 50 ppm STEL: 250 mg/m ³ TWA: 10 ppm TWA: 50 mg/m ³ K*	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ *
Butan-1-ol 71-36-3	-	TWA: 50 ppm TWA: 150 mg/m ³ STEL 200 ppm	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 *

		STEL 600 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 *
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Ethane-1,2-diol 107-21-1	* STEL: 40 ppm STEL: 104 mg/m ³ TWA: 20 ppm TWA: 52 mg/m ³	TWA: 50 mg/m ³ Ceiling: 100 mg/m ³ D*	TWA: 10 ppm TWA: 26 mg/m ³ TWA: 10 mg/m ³ H* STEL: 104 mg/m ³ STEL: 40 ppm STEL: 20 mg/m ³	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ A*	TWA: 20 ppm TWA: 50 mg/m ³ STEL: 40 ppm STEL: 100 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*
Toluene 108-88-3	* STEL: 100 ppm STEL: 384 mg/m ³ TWA: 50 ppm TWA: 192 mg/m ³	TWA: 200 mg/m ³ Ceiling: 500 mg/m ³ D*	TWA: 25 ppm TWA: 94 mg/m ³ H* STEL: 384 mg/m ³ STEL: 100 ppm	TWA: 50 ppm TWA: 192 mg/m ³ STEL: 100 ppm STEL: 384 mg/m ³ A*	TWA: 25 ppm TWA: 81 mg/m ³ STEL: 100 ppm STEL: 380 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
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
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 STEL: 100 mg/m ³	TWA: 10 ppm TWA: 50 mg/m ³	TWA: 1 ppm TWA: 5 mg/m ³ STEL: 2 ppm STEL: 10 mg/m ³
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*
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*
Cyclopentadiene 542-92-7	-	-	TWA: 75 ppm TWA: 200 mg/m ³ STEL: 150 ppm STEL: 400 mg/m ³	TWA: 75 ppm TWA: 200 mg/m ³	TWA: 75 ppm TWA: 210 mg/m ³ STEL: 120 ppm STEL: 330 mg/m ³
Cumene 98-82-8	* STEL: 50 ppm STEL: 250 mg/m ³ TWA: 10 ppm TWA: 50 mg/m ³	TWA: 100 mg/m ³ Ceiling: 250 mg/m ³ D*	TWA: 10 ppm TWA: 50 mg/m ³ H* STEL: 250 mg/m ³ STEL: 50 ppm	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ A*	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ iho*
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*
Benzene 71-43-2	* TWA: 1 ppm	TWA: 3 mg/m ³ Ceiling: 10 mg/m ³	TWA: 0.5 ppm TWA: 1.6 mg/m ³	TWA: 0.5 ppm TWA: 1.5 mg/m ³	TWA: 1 ppm TWA: 3.25 mg/m ³

	TWA: 3.25 mg/m ³	D*	H* STEL: 1 ppm STEL: 3.2 mg/m ³	STEL: 3 ppm STEL: 9 mg/m ³ A*	ihv*
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Reaction products of 1-decene, hydrogenated 68649-12-7	-	TWA: 5 mg/m ³	TWA: 5 mg/m ³ Peak: 20 mg/m ³	-	-
Ethane-1,2-diol 107-21-1	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ *	TWA: 10 ppm TWA: 26 mg/m ³ H*	TWA: 10 ppm TWA: 26 mg/m ³ Peak: 20 ppm Peak: 52 mg/m ³ *	TWA: 50 ppm TWA: 125 mg/m ³ STEL: 50 ppm STEL: 125 mg/m ³	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 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*
Toluene 108-88-3	TWA: 20 ppm TWA: 76.8 mg/m ³ STEL: 100 ppm STEL: 384 mg/m ³ *	TWA: 50 ppm TWA: 190 mg/m ³ H*	TWA: 50 ppm TWA: 190 mg/m ³ Peak: 100 ppm Peak: 380 mg/m ³ *	TWA: 50 ppm TWA: 192 mg/m ³ STEL: 100 ppm STEL: 384 mg/m ³ *	TWA: 190 mg/m ³ TWA: 50 ppm STEL: 384 mg/m ³ STEL: 100 ppm 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
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	-
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
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*
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*
Cyclopentadiene 542-92-7	TWA: 75 ppm TWA: 200 mg/m ³	-	-	TWA: 75 ppm TWA: 200 mg/m ³	TWA: 75 ppm TWA: 200 mg/m ³
Cumene 98-82-8	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ *	TWA: 10 ppm TWA: 50 mg/m ³ H*	TWA: 10 ppm TWA: 50 mg/m ³ Peak: 40 ppm Peak: 200 mg/m ³ *	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ *	TWA: 50 mg/m ³ TWA: 10 ppm STEL: 250 mg/m ³ STEL: 50 ppm b*
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*
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*

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Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Octylamine 111-86-4	-	-	-	TWA: 1 mg/m ³	-
Ethane-1,2-diol 107-21-1	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ Sk*	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ cute*	TWA: 25 ppm STEL: 50 ppm STEL: 10 mg/m ³	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ Ada*	O* TWA: 10 ppm TWA: 25 mg/m ³ STEL: 20 ppm STEL: 50 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
Toluene 108-88-3	TWA: 192 mg/m ³ TWA: 50 ppm STEL: 384 mg/m ³ STEL: 100 ppm Sk*	TWA: 50 ppm TWA: 192 mg/m ³ cute*	TWA: 20 ppm TWA: 75.4 mg/m ³	TWA: 14 ppm TWA: 50 mg/m ³ STEL: 40 ppm STEL: 150 mg/m ³ Ada*	O* TWA: 50 ppm TWA: 192 mg/m ³ STEL: 100 ppm STEL: 384 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
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	-	-
Naphthalene 91-20-3	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 30 ppm STEL: 150 mg/m ³	-	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
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
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
Cyclopentadiene 542-92-7	TWA: 75 ppm TWA: 203 mg/m ³ STEL: 225 ppm STEL: 609 mg/m ³	-	TWA: 0.5 ppm TWA: 2.7 mg/m ³ STEL: 1 ppm STEL: 5.4 mg/m ³	-	TWA: 5 mg/m ³
Cumene 98-82-8	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ Sk*	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ cute*	TWA: 50 ppm TWA: 246 mg/m ³	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ Ada*	O* TWA: 50 mg/m ³ TWA: 10 ppm STEL: 170 mg/m ³ STEL: 35 ppm
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
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

Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Ethane-1,2-diol 107-21-1	Peau* STEL: 40 ppm STEL: 104 mg/m ³ TWA: 20 ppm TWA: 52 mg/m ³	skin* STEL: 40 ppm STEL: 104 mg/m ³ TWA: 20 ppm TWA: 52 mg/m ³	TWA: 52 mg/m ³ TWA: 10 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ H*	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 104 mg/m ³ STEL: 40 ppm H*	STEL: 50 mg/m ³ TWA: 15 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*
Toluene 108-88-3	Peau* STEL: 100 ppm STEL: 384 mg/m ³ TWA: 50 ppm TWA: 192 mg/m ³	skin* STEL: 100 ppm STEL: 384 mg/m ³ TWA: 50 ppm TWA: 192 mg/m ³	TWA: 39 ppm TWA: 150 mg/m ³ STEL: 100 ppm STEL: 384 mg/m ³	TWA: 25 ppm TWA: 94 mg/m ³ STEL: 37.5 ppm STEL: 141 mg/m ³ H*	STEL: 200 mg/m ³ TWA: 100 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
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*
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*
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*
Cyclopentadiene 542-92-7	-	-	-	TWA: 40 ppm TWA: 110 mg/m ³ STEL: 60 ppm STEL: 137.5 mg/m ³	TWA: 200 mg/m ³
Cumene 98-82-8	Peau* STEL: 50 ppm STEL: 250 mg/m ³ TWA: 10 ppm TWA: 50 mg/m ³	skin* STEL: 50 ppm STEL: 250 mg/m ³ TWA: 10 ppm TWA: 50 mg/m ³	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ H*	TWA: 50 mg/m ³ TWA: 10 ppm STEL: 250 mg/m ³ STEL: 50 ppm H*	STEL: 250 mg/m ³ TWA: 50 mg/m ³ skóra*
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*
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*
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Reaction products of 1-decene, hydrogenated 68649-12-7	-	-	-	TWA: 5 mg/m ³ STEL: 20 mg/m ³	-
Ethane-1,2-diol 107-21-1	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ Ceiling: 100 mg/m ³	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ P*	TWA: 20 ppm TWA: 52 mg/m ³ K* Ceiling: 104 mg/m ³	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ K*	TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³ vía dérmica*

	Cutânea*				
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*
Toluene 108-88-3	TWA: 50 ppm TWA: 192 mg/m ³ STEL: 100 ppm STEL: 384 mg/m ³ Cutânea*	TWA: 50 ppm TWA: 192 mg/m ³ STEL: 100 ppm STEL: 384 mg/m ³ P*	TWA: 50 ppm TWA: 192 mg/m ³ K* Ceiling: 384 mg/m ³	TWA: 50 ppm TWA: 192 mg/m ³ STEL: 100 ppm STEL: 384 mg/m ³ K*	TWA: 50 ppm TWA: 192 mg/m ³ STEL: 100 ppm STEL: 384 mg/m ³ vía dérmica*
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
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
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*
Ethylbenzene 100-41-4	TWA: 100 ppm TWA: 442 mg/m ³ STEL: 200 ppm STEL: 884 mg/m ³ Cutânea*	TWA: 100 ppm TWA: 442 mg/m ³ STEL: 200 ppm STEL: 884 mg/m ³ P*	TWA: 100 ppm TWA: 442 mg/m ³ K* Ceiling: 884 mg/m ³	TWA: 100 ppm TWA: 442 mg/m ³ STEL: 200 ppm STEL: 884 mg/m ³ K*	TWA: 100 ppm TWA: 441 mg/m ³ STEL: 200 ppm STEL: 884 mg/m ³ vía dérmica*
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+
Cyclopentadiene 542-92-7	TWA: 75 ppm	TWA: 35.5 ppm TWA: 100 mg/m ³ STEL: 75 ppm STEL: 200 mg/m ³	-	-	TWA: 75 ppm TWA: 206 mg/m ³
Cumene 98-82-8	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ Cutânea*	TWA: 20 ppm TWA: 100 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ P*	TWA: 20 ppm TWA: 500 mg/m ³ K* Ceiling: 250 mg/m ³	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ K*	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ vía dérmica*
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
Benzene 71-43-2	TWA: 1 ppm TWA: 3.25 mg/m ³ STEL: 2.5 ppm Cutânea*	TWA: 1 ppm TWA: 3.25 mg/m ³ P*	TWA: 1.0 ppm TWA: 3.25 mg/m ³ STEL: 5.0 ppm STEL: 16.25 mg/m ³ K*	TWA: 1 ppm TWA: 3.25 mg/m ³ K*	TWA: 1 ppm TWA: 3.25 mg/m ³ vía dérmica*
Chemical name	Sweden		Switzerland		United Kingdom
Reaction products of 1-decene, hydrogenated 68649-12-7	-		TWA: 5 mg/m ³		-
Ethane-1,2-diol 107-21-1	NGV: 10 ppm NGV: 25 mg/m ³ Bindande KGV: 40 ppm Bindande KGV: 104 mg/m ³ H*		TWA: 10 ppm TWA: 26 mg/m ³ STEL: 20 ppm STEL: 52 mg/m ³ H*		TWA: 10 mg/m ³ TWA: 20 ppm TWA: 52 mg/m ³ STEL: 40 ppm STEL: 104 mg/m ³

			STEL: 30 mg/m ³ Sk*
Xylene 1330-20-7	NGV: 50 ppm NGV: 221 mg/m ³ Bindande KGV: 100 ppm Bindande KGV: 442 mg/m ³ H*	TWA: 50 ppm TWA: 220 mg/m ³ STEL: 100 ppm STEL: 440 mg/m ³ H*	TWA: 50 ppm TWA: 220 mg/m ³ STEL: 100 ppm STEL: 441 mg/m ³ Sk*
Toluene 108-88-3	NGV: 50 ppm NGV: 192 mg/m ³ Bindande KGV: 100 ppm Bindande KGV: 384 mg/m ³ H*	TWA: 50 ppm TWA: 190 mg/m ³ STEL: 200 ppm STEL: 760 mg/m ³ H*	TWA: 50 ppm TWA: 191 mg/m ³ STEL: 100 ppm STEL: 384 mg/m ³ Sk*
Phosphoric acid 7664-38-2	NGV: 1 mg/m ³ Bindande KGV: 2 mg/m ³	TWA: 2 mg/m ³ STEL: 4 mg/m ³	TWA: 1 mg/m ³ STEL: 2 mg/m ³
Phenol, 2,6-bis(1,1-dimethylethyl)-4-met hyl- 128-37-0	-	TWA: 10 mg/m ³ STEL: 40 mg/m ³	TWA: 10 mg/m ³ STEL: 30 mg/m ³
Naphthalene 91-20-3	NGV: 10 ppm NGV: 50 mg/m ³ Väglödande KGV: 15 ppm Väglödande KGV: 80 mg/m ³	TWA: 10 ppm TWA: 50 mg/m ³ H*	-
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*
Ethyl acrylate 140-88-5	NGV: 5 ppm NGV: 20 mg/m ³ Bindande KGV: 10 ppm Bindande KGV: 40 mg/m ³ S+	S+ TWA: 2.5 ppm TWA: 10 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
Cyclopentadiene 542-92-7	-	TWA: 75 ppm TWA: 200 mg/m ³	-
Cumene 98-82-8	NGV: 10 ppm NGV: 50 mg/m ³ Bindande KGV: 50 ppm Bindande KGV: 250 mg/m ³ H*	TWA: 20 ppm TWA: 100 mg/m ³ STEL: 80 ppm STEL: 400 mg/m ³ H*	TWA: 25 ppm TWA: 125 mg/m ³ STEL: 50 ppm STEL: 250 mg/m ³ Sk*
Butan-1-ol 71-36-3	NGV: 15 ppm NGV: 45 mg/m ³ Bindande KGV: 30 ppm Bindande KGV: 90 mg/m ³ H*	TWA: 100 ppm TWA: 310 mg/m ³ STEL: 100 ppm STEL: 310 mg/m ³	STEL: 50 ppm STEL: 154 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*

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	-	1.50 mg/L - blood (Xylene) - at the end of the work shift 1.50 g/g Creatinine - urine (Methylhippuric	820 µmol/mmol Creatinine (urine - Methylhippuric acid end of shift) 1400 mg/g

		the shift)		acid) - at the end of the work shift	Creatinine (urine - Methylhippuric acid end of shift)
Toluene 108-88-3	-	10 g/dL Hemoglobin (blood - by the first screening and once yearly) 12 g/dL Hemoglobin (blood - by the first screening and once yearly) 3.2 million/ μ L Erythrocytes (blood - by the first screening and once yearly) 3.8 million/ μ L Erythrocytes (blood - by the first screening and once yearly) 4000 Leukocytes/ μ L (blood - by the first screening and once yearly) 13000 Leukocytes/ μ L (blood - by the first screening and once yearly) 130000 Thrombocytes/ μ L (blood - by the first screening and once yearly) 150000 Thrombocytes/ μ L (blood - by the first screening and once yearly) 0.8 mg/L (urine - o-Cresol after end of work day, at the end of a work week/end of the shift)	1.6 mmol/mmol Creatinine - urine (Hippuric acid) - at the end of exposure or end of work shift	1.0 mg/L - blood (Toluene) - at the end of the work shift 20 ppm - final exhaled air (Toluene) - during exposure 2.50 g/g Creatinine - urine (Hippuric acid) - at the end of the work shift 1.0 mg/g Creatinine - urine (o-Cresol) - at the end of the work shift	1.6 μ mol/mmol Creatinine (urine - o-Cresol end of shift) 1000 μ mol/mmol Creatinine (urine - Hippuric acid end of shift) 1.5 mg/g Creatinine (urine - o-Cresol end of shift) 1600 mg/g Creatinine (urine - Hippuric acid end of shift)
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 μ mol/mmol Creatinine (urine - Mandelic acid end of shift) 1500 mg/g Creatinine (urine - Mandelic acid end of shift)
Cumene 98-82-8	-	-	7 mg/g Creatinine - urine (2-Phenol-2 propanol) - up to two hours after the end of work shift	-	-
Benzene 71-43-2	-	10 g/dL Hemoglobin (blood - by the first screening and once	2.0 mg/L - urine (Trans, trans-Muconic acid) -	28 μ g/L - blood (Benzene) - right at the end of the work	0.024 μ mol/mmol Creatinine (urine - S-Phenylmercapturic

		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/ μ L Erythrocytes (blood - by the first screening and once yearly or for work in cokery plants every six months) 3.2 million/ μ L Erythrocytes (blood - by the first screening and once yearly or for work in cokery plants every six months) 13000 Leukocytes/ μ L (blood - by the first screening and once yearly or for work in cokery plants every six months) 4000 Leukocytes/ μ L (blood - by the first screening and once yearly or for work in cokery plants every six months) 130000 Thrombocytes/ μ L (blood - by the first screening and once yearly or for work in cokery plants every six months) 150000 Thrombocytes/ μ L (blood - by the first screening and once yearly or for work in cokery plants every six months) 1.6 mg/L (urine - t,t-Muconic acid after end of work day, at	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	shift 46 μ g/g Creatinine - urine (S-Phenylmercapturic acid) - at the end of the work shift	acid end of shift) 0.05 mg/g Creatinine (urine - S-Phenylmercapturic acid end of shift) 1.2 μ mol/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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		the end of a work week/end of the shift)			
Chemical name	Denmark	Finland	France	Germany DFG	Germany TRGS
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)
Toluene 108-88-3	-	500 nmol/L (blood - Toluene in the morning after a working day)	1 mg/L - venous blood (Toluene) - end of shift 2500 mg/g creatinine - urine (Hippuric acid) - end of shift	600 µg/L (whole blood - Toluene immediately after exposure) 75 µg/L (urine - Toluene end of shift) 1.5 mg/L (urine - o-Cresol (after hydrolysis) for long-term exposures: at the end of the shift after several shifts) 1.5 mg/L (urine - o-Cresol (after hydrolysis) end of shift) 600 µg/L - BAT (immediately after exposure) blood 75 µg/L - BAT (end of exposure or end of shift) urine 1.5 mg/L - BAT (for long-term exposures: at the end of the shift after several shifts) urine 1.5 mg/L - BAT (end of exposure or end of shift) urine	600 µg/L (whole blood - Toluene immediately after exposure) 75 µg/L (urine - Toluene end of shift) 1.5 mg/L (urine - o-Cresol (after hydrolysis) for long-term exposures: at the end of the shift after several shifts) 1.5 mg/L (urine - o-Cresol (after hydrolysis) 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	-
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 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	
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 - (end of exposure or end of shift) - urine 670 mg/g Creatinine - (end of exposure or end of shift) -	250 mg/g Creatinine (urine - Mandelic acid plus Phenylglyoxylic acid end of shift)

				urine 1300 mg/g Creatinine - (end of exposure or end of shift) - urine	
Cumene 98-82-8	-	-	-	10 mg/g Creatinine (urine - 2-Phenyl-2-propanol (after hydrolysis) end of shift) 10 mg/g Creatinine - BAT (end of exposure or end of shift) urine	10 mg/g Creatinine (urine - 2-Phenyl-2-propanol (after hydrolysis) end of shift)
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)
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	
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	
Toluene 108-88-3	1 mg/g Creatinine (urine - o-Cresol end of shift) 1 µmol/mmol Creatinine (urine - o-Cresol end of shift)	0.02 mg/L (blood - Toluene prior to last shift of workweek) 0.03 mg/L (urine - Toluene end of shift) 0.3 mg/g Creatinine (urine - o-Cresol end of shift)	-	0.3 mg/g Creatinine - urine (o-Cresol (with hydrolysis)) - end of shift 0.03 mg/L - urine (Toluene) - end of shift 0.02 mg/L - blood (Toluene) - prior to last shift of workweek	
Naphthalene 91-20-3	-	-	-	- () - 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
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)
Toluene 108-88-3	1.6 g/g Creatinine - urine (Hippuric acid) - end of shift 0.05 mg/L - blood (Toluene) - end of shift	-	2 g/L - urine (Hippuric acid) - end of shift 3 mg/L - urine (o-Cresol) - end of shift	600 µg/L (blood - Toluene end of exposure or work shift) 1.5 mg/L (urine - o-Cresol after all work shifts) 1.5 mg/L (urine - o-Cresol end of exposure or work shift) 1600 mg/g creatinine (- Hippuric acid 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)
Cumene 98-82-8	7 µg/g Creatinine - urine (Cumene) - no later than two hours after the end of the shift	-	-	10.6 mg/L (urine - 2-Phenylpropane end of exposure or work shift)
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)
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
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

Toluene 108-88-3	600 µg/L - blood (Toluene) - immediately after exposure 1.5 mg/L - urine (o-Cresol (after hydrolysis)) - at the end of the work shift; for long-term exposure: at the end of the work shift after several consecutive workdays 75 µg/L - urine (Toluene) - at the end of the work shift	0.6 mg/L (urine - o-Cresol end of shift) 0.05 mg/L (blood - Toluene start of last shift of workweek) 0.08 mg/L (urine - Toluene end of shift)	600 µg/L (whole blood - Toluene end of shift) 6.48 µmol/L (whole blood - Toluene end of shift) 2 g/g creatinine (urine - Hippuric acid end of shift, and after several shifts (for long-term exposures)) 1.26 mmol/mmol creatinine (urine - Hippuric acid end of shift, and after several shifts (for long-term exposures)) 0.5 mg/L (urine - o-Cresol end of shift, and after several shifts (for long-term exposures)) 4.62 µmol/L (urine - o-Cresol end of shift, and after several shifts (for long-term exposures)) 75 µg/L (urine - Toluol end of shift)	-
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)	-
Cumene 98-82-8	10 mg/g Creatinine - urine (2-Phenyl-2-propanol (after hydrolysis)) - at the end of the work shift	7 mg/g Creatinine (urine - 2-Phenyl-2-propanol end of shift)	20 mg/g creatinine (urine - 2-Phenyl-2-propanol after hydrolysis end of shift) 16.6 µmol/mmol creatinine (urine - 2-Phenyl-2-propanol after hydrolysis end of shift)	-
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)	-
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)	-

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
Reaction products of 1-decene,	-	-	60 mg/m ³ [4] [7]

Chemical name	Oral	Dermal	Inhalation
hydrogenated 68649-12-7			
Diisodecyl adipate 27178-16-1	-	15 mg/kg bw/day [4] [6]	2.8 mg/m ³ [4] [6]
Hydrogenated base oil 64742-54-7	-	0.97 mg/kg bw/day [4] [6]	2.73 mg/m ³ [4] [6] 5.58 mg/m ³ [5] [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/m ³ [4] [6] 3.52 mg/m ³ [4] [7] 1 mg/m ³ [5] [6] 1 mg/m ³ [5] [7]
Octylamine 111-86-4	-	0.65 mg/kg bw/day [4] [6]	4.6 mg/m ³ [4] [6] 26.85 mg/m ³ [5] [6] 53.7 mg/m ³ [5] [7]
Ethane-1,2-diol 107-21-1	-	106 mg/kg bw/day [4] [6]	35 mg/m ³ [5] [6]
Toluene 108-88-3	-	384 mg/kg bw/day [4] [6]	192 mg/m ³ [4] [6] 384 mg/m ³ [4] [7] 192 mg/m ³ [5] [6] 384 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]
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]
Ethyl acrylate 140-88-5	-	0.92 mg/cm ² [5] [7]	21 mg/m ³ [5] [6]
Naphthalene 91-20-3	-	3.57 mg/kg bw/day [4] [6]	25 mg/m ³ [4] [6] 25 mg/m ³ [5] [6]
Cumene 98-82-8	-	15.4 mg/kg bw/day [4] [6]	100 mg/m ³ [4] [6] 250 mg/m ³ [5] [7]
Butan-1-ol 71-36-3	-	-	310 mg/m ³ [5] [6]

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
Reaction products of 1-decene, hydrogenated 68649-12-7	-	-	50 mg/m ³ [4] [7]
Diisodecyl adipate 27178-16-1	0.283 mg/kg bw/day [4] [6]	-	0.419 mg/m ³ [4] [6]
Hydrogenated base oil 64742-54-7	0.74 mg/kg bw/day [4] [6]	-	1.19 mg/m ³ [5] [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]
Ethane-1,2-diol 107-21-1	-	-	7 mg/m ³ [5] [6]

Chemical name	Oral	Dermal	Inhalation
Toluene 108-88-3	8.13 mg/kg bw/day [4] [6]	-	56.5 mg/m ³ [4] [6] 226 mg/m ³ [4] [7] 56.5 mg/m ³ [5] [6] 226 mg/m ³ [5] [7]
Ethylbenzene 100-41-4	1.6 mg/kg bw/day [4] [6]	-	15 mg/m ³ [4] [6]
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]
Ethyl acrylate 140-88-5	-	0.92 mg/cm ² [5] [7]	2.5 mg/m ³ [5] [6]
Cumene 98-82-8	5 mg/kg bw/day [4] [6]	-	16.6 mg/m ³ [4] [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]

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	-	-
Ethane-1,2-diol 107-21-1	10 mg/L	10 mg/L	1 mg/L	10 mg/L	-
Toluene 108-88-3	0.68 mg/L	0.68 mg/L	0.68 mg/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	-	-
Ethyl acrylate 140-88-5	0.00272 mg/L	0.011 mg/L	0.00027 mg/L	-	-
Naphthalene 91-20-3	2.4 µg/L	20 µg/L	2.4 µg/L	-	-
Cumene 98-82-8	0.035 mg/L	0.012 mg/L	0.0035 mg/L	-	-
Butan-1-ol 71-36-3	0.082 mg/L	2.25 mg/L	0.0082 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	-
Ethane-1,2-diol 107-21-1	37 mg/kg sediment dw	3.7 mg/kg sediment dw	199.5 mg/L	1.53 mg/kg soil dw	-
Toluene 108-88-3	16.39 mg/kg sediment dw	16.39 mg/kg sediment dw	13.61 mg/L	2.89 mg/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	-
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
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	-
Cumene 98-82-8	3.22 mg/kg sediment dw	0.322 mg/kg sediment dw	200 mg/L	0.624 mg/kg soil dw	-
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	-

8.2. Exposure controls

Engineering controls

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection

If there is a risk of contact: Wear safety glasses with side shields (or goggles).

Hand protection

If there is a risk of contact: Wear suitable gloves.

Skin and body protection

If there is a risk of contact: Wear suitable protective clothing.

Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

Environmental exposure controls

Avoid release to the environment. 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

Odour

Mild hydrocarbon

Odour threshold

No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
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	226 °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	80.3 cSt @ 40 °C 14 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	0.8443	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 -56 °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 238 °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.
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. Causes mild skin irritation.
Ingestion	Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Prolonged contact may cause redness and irritation.

Acute toxicity**Numerical measures of toxicity**

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

ATEmix (oral)	177,777.80 mg/kg
ATEmix (dermal)	266,666.70 mg/kg

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Reaction products of 1-decene, hydrogenated 68649-12-7	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Hydrogenated base oil 64742-54-7	> 15 g/kg (Rat)	> 5000 mg/kg (Rabbit)	-
(Z)-Octadec-9-enylamine 112-90-3	= 1689 mg/kg (Rat)	-	-
Octylamine 111-86-4	= 200 - 500 mg/kg (Rat)	= 200 - 2000 mg/kg (Rabbit)	= 1.6 mg/L (Rat) 4h
Hydrogenated base oil 64742-46-7	= 7400 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 4.6 mg/L (Rat) 4 h
Ethane-1,2-diol 107-21-1	= 4700 mg/kg (Rat)	= 10600 mg/kg (Rat)	> 2.5 mg/L (Rat) 6 h
Xylene 1330-20-7	= 3500 mg/kg (Rat)	> 4350 mg/kg (Rabbit)	= 29.08 mg/L (Rat) 4 h
Toluene 108-88-3	= 2600 mg/kg (Rat)	= 12000 mg/kg (Rabbit)	= 12.5 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

Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- 128-37-0	> 6000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Naphthalene 91-20-3	= 1110 mg/kg (Rat)	= 1120 mg/kg (Rabbit)	> 0.4 mg/L (Rat) 4 h
Ethylbenzene 100-41-4	= 3500 mg/kg (Rat)	= 15400 mg/kg (Rabbit)	= 17.4 mg/L (Rat) 4 h
Ethyl acrylate 140-88-5	= 550 mg/kg (Rat)	= 1790 mg/kg (Rabbit)	= 9.137 mg/L (Rat) 4 h
Cyclopentadiene 542-92-7	= 113 mg/kg (Rat)	-	= 39 mg/L (Rat) 1 h
Cumene 98-82-8	= 1400 mg/kg (Rat)	= 12300 µL/kg (Rabbit)	> 3577 ppm (Rat) 6 h
Butan-1-ol 71-36-3	= 700 mg/kg (Rat)	= 3402 mg/kg (Rabbit)	> 8000 ppm (Rat) 4 h
Benzene 71-43-2	> 2000 mg/kg (Rat)	> 8200 mg/kg (Rabbit)	= 44.66 mg/L (Rat) 4 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.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

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
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
Hydrogenated base oil	Carc. 1B
Naphthalene	Carc. 2
Cumene	Carc. 1B
Benzene	Carc. 1A

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
Toluene	Repr. 2

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>)
Octylamine 111-86-4	EL50: 0.23mg/L (72h, <i>Desmodesmus subspicatus</i>) Chronic EL10: 0.07mg/L (72h, <i>Desmodesmus subspicatus</i>)	LC50: 5.19mg/L (96h, <i>Pimephales promelas</i>)	-	EC50: 1.9mg/L (48h, <i>Daphnia</i>)
Hydrogenated base oil 64742-46-7	-	LC50: >10000mg/L (96h, <i>Pimephales promelas</i>)	-	-
Ethane-1,2-diol 107-21-1	EC50: 6500 - 13000mg/L (96h, <i>Pseudokirchneriella subcapitata</i>)	LC50: =41000mg/L (96h, <i>Oncorhynchus mykiss</i>) LC50: 14 - 18mg/L (96h, <i>Oncorhynchus mykiss</i>) LC50: =27540mg/L (96h, <i>Lepomis macrochirus</i>) LC50: =40761mg/L (96h, <i>Oncorhynchus mykiss</i>) LC50: 40000 - 60000mg/L (96h, <i>Pimephales promelas</i>) LC50: =16000mg/L (96h, <i>Poecilia reticulata</i>)	-	EC50: =46300mg/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>)
Toluene 108-88-3	EC50: >433mg/L (96h, <i>Pseudokirchneriella subcapitata</i>) EC50: =12.5mg/L (72h, <i>Pseudokirchneriella subcapitata</i>)	LC50: 15.22 - 19.05mg/L (96h, <i>Pimephales promelas</i>) LC50: =12.6mg/L (96h, <i>Pimephales promelas</i>) LC50: 5.89 - 7.81mg/L (96h, <i>Oncorhynchus mykiss</i>) LC50: 14.1 - 17.16mg/L (96h, <i>Oncorhynchus mykiss</i>)	-	EC50: 5.46 - 9.83mg/L (48h, <i>Daphnia magna</i>) EC50: =11.5mg/L (48h, <i>Daphnia magna</i>)

		LC50: =5.8mg/L (96h, Oncorhynchus mykiss) LC50: 11.0 - 15.0mg/L (96h, Lepomis macrochirus) LC50: =54mg/L (96h, Oryzias latipes) LC50: =28.2mg/L (96h, Poecilia reticulata) LC50: 50.87 - 70.34mg/L (96h, Poecilia reticulata)		
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-128-37-0	EC50: >0.42mg/L (72h, Desmodesmus subspicatus)	-	-	-
Naphthalene 91-20-3	-	LC50: 0.91 - 2.82mg/L (96h, Oncorhynchus mykiss)	-	EC50: 1.09 - 3.4mg/L (48h, Daphnia magna)
Ethylbenzene 100-41-4	EC50: >438mg/L (96h, Pseudokirchneriella subcapitata)	LC50: 11.0 - 18.0mg/L (96h, Oncorhynchus mykiss)	-	EC50: 1.8 - 2.4mg/L (48h, Daphnia magna)
Ethyl acrylate 140-88-5	EC50: =48mg/L (72h, Desmodesmus subspicatus)	LC50: 10.0 - 22.0mg/L (96h, Leuciscus idus)	-	EC50: =7.9mg/L (48h, Daphnia magna)
Cumene 98-82-8	EC50: =2.6mg/L (72h, Pseudokirchneriella subcapitata)	LC50: 6.04 - 6.61mg/L (96h, Pimephales promelas) LC50: =4.8mg/L (96h, Oncorhynchus mykiss) LC50: =2.7mg/L (96h, Oncorhynchus mykiss) LC50: =5.1mg/L (96h, Poecilia reticulata)	-	EC50: =0.6mg/L (48h, Daphnia magna) EC50: 7.9 - 14.1mg/L (48h, Daphnia magna)
Butan-1-ol 71-36-3	EC50: >500mg/L (96h, Desmodesmus subspicatus) EC50: >500mg/L (72h, Desmodesmus subspicatus)	LC50: 1730 - 1910mg/L (96h, Pimephales promelas) LC50: =1740mg/L (96h, Pimephales promelas) LC50: 100000 - 500000µg/L (96h, Lepomis macrochirus) LC50: =1910000µg/L (96h, Pimephales promelas)	-	EC50: =1983mg/L (48h, Daphnia magna) EC50: 1897 - 2072mg/L (48h, Daphnia magna)
Benzene 71-43-2	EC50: =29mg/L (72h, Pseudokirchneriella subcapitata)	LC50: =22.49mg/L (96h, Lepomis macrochirus)	-	EC50: =10mg/L (48h, Daphnia magna)

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential**Bioaccumulation****Component Information**

Chemical name	Partition coefficient
Reaction products of 1-decene, hydrogenated	5
Ethane-1,2-diol	-1.36

Xylene	3.15
Toluene	2.73
Phosphoric acid	-0.9
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-	5.1
Naphthalene	3.4
Ethylbenzene	3.6
Ethyl acrylate	1.18
Cumene	3.55
Butan-1-ol	1
Benzene	2.13

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
Octylamine 111-86-4	The substance is not PBT / vPvB
Hydrogenated base oil 64742-46-7	The substance is not PBT / vPvB
Ethane-1,2-diol 107-21-1	The substance is not PBT / vPvB
Xylene 1330-20-7	The substance is not PBT / vPvB
Toluene 108-88-3	The substance is not PBT / vPvB
Phosphoric acid 7664-38-2	The substance is not PBT / vPvB
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- 128-37-0	The substance is not PBT / vPvB
Naphthalene 91-20-3	The substance is not PBT / vPvB
Ethylbenzene 100-41-4	The substance is not PBT / vPvB
Ethyl acrylate 140-88-5	The substance is not PBT / vPvB
Cumene 98-82-8	The substance is not PBT / vPvB
Butan-1-ol 71-36-3	The substance is not PBT / vPvB
Benzene 71-43-2	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
Octylamine 111-86-4	RG 49, RG 49bis
Ethane-1,2-diol 107-21-1	RG 84
Xylene 1330-20-7	RG 4bis, RG 84
Toluene 108-88-3	RG 4bis, RG 84
Ethylbenzene 100-41-4	RG 84
Ethyl acrylate 140-88-5	RG 65
Cyclopentadiene 542-92-7	RG 84
Cumene 98-82-8	RG 84
Butan-1-ol 71-36-3	RG 84
Benzene 71-43-2	RG 4, RG 4bis, RG 84

Netherlands

Chemical name	Netherlands - List of Carcinogens	Netherlands - List of Mutagens	Netherlands - List of Reproductive Toxins
Xylene	-	-	Development Category 2
Toluene	-	-	Development Category 2
Cumene	Present	-	-
Benzene	Present	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.	-
Hydrogenated base oil - 64742-46-7	28. 75.	-
Xylene - 1330-20-7	75.	-
Toluene - 108-88-3	48. 75.	-
Phosphoric acid - 7664-38-2	75.	-
Naphthalene - 91-20-3	75.	-
Ethyl acrylate - 140-88-5	75.	-
Butan-1-ol - 71-36-3	75.	-

Benzene - 71-43-2	72. 5. 28. 29. 75.	-
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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
Benzene - 71-43-2	I.1

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 - 64742-46-7	Plant protection agent

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**

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
 H331 - Toxic if inhaled
 H332 - Harmful if inhaled
 H335 - May cause respiratory irritation
 H336 - May cause drowsiness or dizziness
 H340 - May cause genetic defects
 H350 - May cause cancer
 H351 - Suspected of causing cancer
 H361d - Suspected of damaging the unborn child
 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) (AELG(s))

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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet