

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : GET Plasti Dip® UV C1178 Blurple  
Product code : GETF954101C1178UV, GETF954154C1178-UV  
Product group : Trade product  
:

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Coating Solution

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

##### Manufacturer

Plasti Dip International, Inc.  
3920 Pheasant Ridge Drive  
Blaine, MN 55449  
Phone - (763) 785-2156

##### Distributor

Global Express  
7 Indian Path  
Millstone, NJ 08535  
(732) 977-0605

##### EU Importer of Record

Plasti Dip UK Limited  
Unit 1 Harvesting Lane  
East Meon, GU32 1QR  
United Kingdom

#### 1.4. Emergency telephone number

##### Manufacturer Emergency number

CHEMTREC: 1-800-424-9300 (US);  
+1 703-741-5970 (International)

##### Distributor Emergency Number

CHEMTREC: 1-800-424-9300 (US);  
+1 703-741-5970 (International)

##### Importer Emergency Number

CHEMTREC: 1-800-424-9300 (US);  
+1 703-741-5970 (International)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 2	H225
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Carcinogenicity, Category 2	H351
Reproductive toxicity, Category 2	H361
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336
Specific target organ toxicity – Repeated exposure, Category 2	H373
Aspiration hazard, Category 1	H304
Hazardous to the aquatic environment – Chronic Hazard, Category 2	H411

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

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



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	GHS02	GHS07	GHS08	GHS09
Signal word (CLP)	: Danger			
Contains	: Distillates, petroleum, light distillate hydrotreating process, low-boiling; Naphtha, petroleum, hydrotreated light; Solvent naphtha, petroleum, light aliphatic; Octane; n-Heptane; Toluene; Benzene; Ethylbenzene; Naphthalene; Cyclohexane; Hexane; Isopropyl alcohol; Silica: Crystalline, quartz			
Hazard statements (CLP)	: H225 - Highly flammable liquid and vapour. H304 - May be fatal if swallowed and enters airways. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness. H351 - Suspected of causing cancer. H361 - Suspected of damaging fertility or the unborn child. H373 - May cause damage to organs through prolonged or repeated exposure. H411 - Toxic to aquatic life with long lasting effects.			
Precautionary statements (CLP)	: P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501 - Dispose of contents and container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.			
EUH statements	: EUH208 - Contains Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate. May produce an allergic reaction.			

### 2.3. Other hazards

The mixture contains Methyl ethyl ketone (CAS#78-93-3), which is identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Naphtha, petroleum, hydrotreated light	CAS-No.: 64742-49-0 EC-No.: 265-151-9 EC Index-No.: 649-328-00-1	30 – 60	Carc. 1B, H350 Muta. 1B, H340 Asp. Tox. 1, H304
Solvent naphtha, petroleum, light aliphatic	CAS-No.: 64742-89-8 EC-No.: 265-192-2 EC Index-No.: 649-267-00-0	30 – 60	Muta. 1B, H340 Carc. 1B, H350 Asp. Tox. 1, H304
Distillates, petroleum, light distillate hydrotreating process, low-boiling	CAS-No.: 68410-97-9 EC-No.: 270-093-2 EC Index-No.: 649-332-00-3	15 – 40	Muta. 1B, H340 Carc. 1B, H350 Asp. Tox. 1, H304
Xylene	CAS-No.: 1330-20-7 EC-No.: 215-535-7 EC Index-No.: 601-022-00-9	10 – 30	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
n-Heptane	CAS-No.: 142-82-5 EC-No.: 205-563-8 EC Index-No.: 601-008-00-2	7 – 13	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Methyl ethyl ketone	CAS-No.: 78-93-3 EC-No.: 201-159-0 EC Index-No.: 606-002-00-3	5 – 10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Ethylbenzene	CAS-No.: 100-41-4 EC-No.: 202-849-4 EC Index-No.: 601-023-00-4	3 – 7	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Octane	CAS-No.: 111-65-9 EC-No.: 203-892-1 EC Index-No.: 601-009-00-8	1 – 5	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Cyclohexane	CAS-No.: 110-82-7 EC-No.: 203-806-2 EC Index-No.: 601-017-00-1	1 – 5	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Solvent naphtha, petroleum, medium aliphatic	CAS-No.: 64742-88-7 EC-No.: 265-191-7 EC Index-No.: 649-405-00-X	0.5 – 1.5	Asp. Tox. 1, H304 STOT RE 1, H372
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	CAS-No.: 41556-26-7 EC-No.: 255-437-1	0.1 – 1	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Decanedioic acid, methyl 1,2,2,6,6-pentamethyl-4-piperidiny ester	CAS-No.: 82919-37-7 EC-No.: 280-060-4	0.1 – 1	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Cumene	CAS-No.: 98-82-8 EC-No.: 202-704-5 EC Index-No.: 601-024-00-X	0.1 – 1	Flam. Liq. 3, H226 Carc. 1B, H350 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

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

## SECTION 4: First Aid measures

### 4.1. Description of first aid measures

#### First-aid measures general

: If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

#### First-aid measures after inhalation

: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention. If breathing is difficult, supply oxygen. If breathing has stopped, give artificial respiration.

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First-aid measures after skin contact	: IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, get medical attention.
First-aid measures after eye contact	: IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Continue rinsing. If pain, blinking, or irritation develops or persists, get medical attention. Continue rinsing.
First-aid measures after ingestion	: IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention immediately.

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

Symptoms/effects	: May be fatal if swallowed and enters airways. Causes serious eye irritation. Causes skin irritation. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.
Symptoms/effects after inhalation	: May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways.
Chronic symptoms	: Suspected of causing cancer. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure.

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Foam. Dry powder. Sand. Water spray.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: Highly flammable liquid and vapour.
Explosion hazard	: Heating may cause an explosion.
Hazardous decomposition products in case of fire	: Carbon monoxide. Carbon dioxide.

### 5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent human exposure to fire, fumes, smoke and products of combustion. Do not dispose of fire-fighting water in the environment. Avoid contact with sprayed water - material slippery when wet.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Keep upwind. Ventilate area. Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear Protective equipment as described in Section 8.  
Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

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### 6.3. Methods and material for containment and cleaning up

- For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Sweep or shovel spills into appropriate container for disposal.
- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Product may create slip hazard. Wash spill area thoroughly with plenty of soap and water. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Provide good ventilation in process area to prevent formation of vapour. Do not breathe mist, vapours. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in dry, cool, well-ventilated area. Keep container closed when not in use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Incompatible materials : Sources of ignition.

### 7.3. Specific end use(s)

Coating.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. National occupational exposure and biological limit values

#### Distillates, petroleum, light distillate hydrotreating process, low-boiling (68410-97-9)

##### EU - Biological Limit Value (BLV)

Remark	OELs not established
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##### United Kingdom - Occupational Exposure Limits

Remark	OELs not established
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##### USA - ACGIH - Occupational Exposure Limits

Remark (ACGIH)	OELs not established
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#### Naphtha, petroleum, hydrotreated light (64742-49-0)

##### Poland - Occupational Exposure Limits

NDS (OEL TWA)	500 mg/m <sup>3</sup> (extraction)
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NDSch (OEL STEL)	1500 mg/m <sup>3</sup> (extraction (Benzin))
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##### USA - ACGIH - Occupational Exposure Limits

Local name	Hexane (Commercial, <54% n-hexane)
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ACGIH® TLV® TWA	100 ppm
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Remark (ACGIH)	TLV® Basis: Periph neuropathy. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
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<b>Naphtha, petroleum, hydrotreated light (64742-49-0)</b>	
Regulatory reference	ACGIH 2024
<b>Solvent naphtha, petroleum, light aliphatic (64742-89-8)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Hexane (Commercial, <54% n-hexane)
ACGIH® TLV® TWA	100 ppm
Regulatory reference	ACGIH 2024
<b>Octane (111-65-9)</b>	
<b>Austria - Occupational Exposure Limits</b>	
MAK (OEL TWA)	1400 mg/m <sup>3</sup> (Octane all isomers)
	300 ppm (Octane all isomers)
MAK (OEL STEL)	5600 mg/m <sup>3</sup> (Octane all isomers)
	1200 ppm (Octane all isomers)
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	1420 mg/m <sup>3</sup>
	300 ppm
OEL STEL	1775 mg/m <sup>3</sup>
	375 ppm
<b>Bulgaria - Occupational Exposure Limits</b>	
OEL TWA	1450 mg/m <sup>3</sup>
OEL STEL	1800 mg/m <sup>3</sup>
<b>Denmark - Occupational Exposure Limits</b>	
OEL TWA	935 mg/m <sup>3</sup>
	200 ppm
OEL STEL	1870 mg/m <sup>3</sup>
	400 ppm
<b>Finland - Occupational Exposure Limits</b>	
HTP (OEL TWA)	1400 mg/m <sup>3</sup> (Octane)
	300 ppm (Octane)
HTP (OEL STEL)	1800 mg/m <sup>3</sup>
	380 ppm
<b>France - Occupational Exposure Limits</b>	
VME (OEL TWA)	1450 mg/m <sup>3</sup>
	300 ppm
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA)	2400 mg/m <sup>3</sup>
	500 ppm
AGW (OEL C)	4800 mg/m <sup>3</sup>
AGW (OEL C) [ppm]	1000 ppm

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Octane (111-65-9)	
<b>Greece - Occupational Exposure Limits</b>	
OEL TWA	2350 mg/m <sup>3</sup>
	500 ppm
OEL STEL	2350 mg/m <sup>3</sup>
	500 ppm
<b>Hungary - Occupational Exposure Limits</b>	
CK (OEL STEL)	4700 mg/m <sup>3</sup>
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA	1450 mg/m <sup>3</sup>
	300 ppm
OEL STEL	4350 mg/m <sup>3</sup> (calculated)
	900 ppm (calculated)
<b>Poland - Occupational Exposure Limits</b>	
NDS (OEL TWA)	1000 mg/m <sup>3</sup>
NDSCh (OEL STEL)	1800 mg/m <sup>3</sup>
<b>Romania - Occupational Exposure Limits</b>	
OEL TWA	1500 mg/m <sup>3</sup>
	322 ppm
OEL STEL	2000 mg/m <sup>3</sup>
	429 ppm
<b>Slovakia - Occupational Exposure Limits</b>	
NPHV (OEL C)	1400 mg/m <sup>3</sup> (Octanes)
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA)	1420 mg/m <sup>3</sup>
	300 ppm
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (OEL TWA)	1200 mg/m <sup>3</sup>
	210 ppm
<b>Norway - Occupational Exposure Limits</b>	
Grenseverdi (OEL TWA)	725 mg/m <sup>3</sup>
	150 ppm
Korttidsverdi (OEL STEL)	906.25 mg/m <sup>3</sup> (value calculated)
	187.5 ppm (value calculated)
<b>Switzerland - Occupational Exposure Limits</b>	
MAK (OEL TWA)	1400 mg/m <sup>3</sup>
	300 ppm
KZGW (OEL STEL)	2800 mg/m <sup>3</sup>
	600 ppm

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<b>Octane (111-65-9)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Octane, all isomers
ACGIH® TLV® TWA	300 ppm
Remark (ACGIH)	TLV® Basis: URT irr
Regulatory reference	ACGIH 2024
<b>n-Heptane (142-82-5)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOEL TWA	2085 mg/m <sup>3</sup>
	500 ppm
<b>Austria - Occupational Exposure Limits</b>	
MAK (OEL TWA)	2000 mg/m <sup>3</sup>
	500 ppm
MAK (OEL STEL)	8000 mg/m <sup>3</sup>
	2000 ppm
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	1664 mg/m <sup>3</sup>
	400 ppm
OEL STEL	2085 mg/m <sup>3</sup>
	500 ppm
<b>Denmark - Occupational Exposure Limits</b>	
OEL TWA	820 mg/m <sup>3</sup>
	200 ppm
OEL STEL	1640 mg/m <sup>3</sup>
	400 ppm
<b>Finland - Occupational Exposure Limits</b>	
HTP (OEL TWA)	1200 mg/m <sup>3</sup>
	300 ppm
HTP (OEL STEL)	2100 mg/m <sup>3</sup>
	500 ppm
<b>France - Occupational Exposure Limits</b>	
VME (OEL TWA)	1668 mg/m <sup>3</sup>
	400 ppm
VLE (OEL C/STEL)	2100 mg/m <sup>3</sup>
	500 ppm
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA)	2100 mg/m <sup>3</sup>
	500 ppm
AGW (OEL C)	2100 mg/m <sup>3</sup>
AGW (OEL C) [ppm]	500 ppm

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<b>n-Heptane (142-82-5)</b>	
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA	2085 mg/m <sup>3</sup>
	500 ppm
<b>Italy - Occupational Exposure Limits</b>	
OEL TWA	2085 mg/m <sup>3</sup>
	500 ppm
<b>Latvia - Occupational Exposure Limits</b>	
OEL TWA	350 mg/m <sup>3</sup>
	85 ppm
OEL STEL	2085 mg/m <sup>3</sup>
	500 ppm
<b>Netherlands - Occupational Exposure Limits</b>	
TGG-8u (OEL TWA)	1200 mg/m <sup>3</sup>
TGG-15min (OEL STEL)	1600 mg/m <sup>3</sup>
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (OEL TWA)	500 ppm
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Heptane, isomers (n-Heptane)
ACGIH® TLV® TWA	400 ppm
ACGIH® TLV® STEL	500 ppm (listed under Heptane, all isomers)
Remark (ACGIH)	TLV® Basis: CNS impair; URT irr
Regulatory reference	ACGIH 2024
<b>Toluene (108-88-3)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOEL TWA	192 mg/m <sup>3</sup>
	50 ppm
IOEL STEL	384 mg/m <sup>3</sup>
	100 ppm
Remark	Possibility of significant uptake through the skin
<b>Austria - Occupational Exposure Limits</b>	
MAK (OEL TWA)	190 mg/m <sup>3</sup>
	50 ppm
MAK (OEL STEL)	380 mg/m <sup>3</sup>
	100 ppm
OEL chemical category	Skin notation
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	77 mg/m <sup>3</sup>
	20 ppm
OEL STEL	384 mg/m <sup>3</sup>

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<b>Toluene (108-88-3)</b>	
	100 ppm
OEL chemical category	Skin, Skin notation
<b>Bulgaria - Occupational Exposure Limits</b>	
OEL TWA	192 mg/m <sup>3</sup>
	50 ppm
OEL STEL	384 mg/m <sup>3</sup>
	100 ppm
<b>Bulgaria - Biological limit values</b>	
BLV	1.6 mmol/mmol Creatinine Parameter: Hippuric acid - Medium: urine - Sampling time: at the end of exposure or end of work shift
<b>Croatia - Occupational Exposure Limits</b>	
GVI (OEL TWA)	192 mg/m <sup>3</sup>
	50 ppm
KGV (OEL STEL)	384 mg/m <sup>3</sup>
	100 ppm
OEL chemical category	Skin notation
<b>Croatia - Biological limit values</b>	
BLV	1 mg/l Parameter: Toluene - Medium: blood - Sampling time: at the end of the work shift 20 ppm Medium: final exhaled air - Sampling time: during exposure 2.5 g/g creatinine Parameter: Hippuric acid - Medium: urine - Sampling time: at the end of the work shift (calculated on the average Creatinine value of 1.2 g/L urine) 1 mg/g creatinine Parameter: o-Cresol - Medium: urine - Sampling time: at the end of the work shift (calculated on the average Creatinine value of 1.2 g/L urine)
<b>Cyprus - Occupational Exposure Limits</b>	
OEL TWA	192 mg/m <sup>3</sup>
	50 ppm
OEL STEL	384 mg/m <sup>3</sup>
	100 ppm
OEL chemical category	Skin-potential for cutaneous absorption
<b>Czech Republic - Occupational Exposure Limits</b>	
PEL (OEL TWA)	200 mg/m <sup>3</sup>
OEL chemical category	Potential for cutaneous absorption

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Toluene (108-88-3)	
<b>Czech Republic - Biological limit values</b>	
BLV	1.6 µmol/mmol Creatinine Parameter: o-Cresol - Medium: urine - Sampling time: end of shift (after hydrolysis) 1000 µmol/mmol Creatinine Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift (exposure testing using the o-Cresol parameter to precisely measure Toluene exposure is needed if the value of Hippuric acid is between 1600 and 2500 mg/g of Creatinine, no additional testing is needed if the Hippuric acid value is >2500 mg/g of Creatinine as work exposure to Toluene will have highly exceeded the PEL value.) 1.5 mg/g creatinine Parameter: o-Cresol - Medium: urine - Sampling time: end of shift (after hydrolysis) 1600 mg/g creatinine Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift (exposure testing using the o-Cresol parameter to precisely measure Toluene exposure is needed if the value of Hippuric acid is between 1600 and 2500 mg/g of Creatinine, no additional testing is needed if the Hippuric acid value is >2500 mg/g of Creatinine as work exposure to Toluene will have highly exceeded the PEL value.)
<b>Denmark - Occupational Exposure Limits</b>	
OEL TWA	94 mg/m <sup>3</sup>
	25 ppm
OEL STEL	188 mg/m <sup>3</sup>
	50 ppm
OEL chemical category	Potential for cutaneous absorption
<b>Estonia - Occupational Exposure Limits</b>	
OEL TWA	192 mg/m <sup>3</sup>
	50 ppm
OEL STEL	384 mg/m <sup>3</sup>
	100 ppm
OEL chemical category	Skin notation
<b>Finland - Occupational Exposure Limits</b>	
HTP (OEL TWA)	81 mg/m <sup>3</sup>
	25 ppm
HTP (OEL STEL)	380 mg/m <sup>3</sup>
	100 ppm
OEL chemical category	Potential for cutaneous absorption
<b>Finland - Biological limit values</b>	
BLV	500 nmol/L Parameter: Toluene - Medium: blood - Sampling time: in the morning after a working day
<b>France - Occupational Exposure Limits</b>	
VME (OEL TWA)	76.8 mg/m <sup>3</sup> TWA [VME] (restrictive limit)
	20 ppm TWA [VME] (restrictive limit)
VLE (OEL C/STEL)	384 mg/m <sup>3</sup> STEL [VLCT] (restrictive limit)
	100 ppm STEL [VLCT] (restrictive limit)
OEL chemical category	risk of cutaneous absorption

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<b>Toluene (108-88-3)</b>	
<b>France - Biological limit values</b>	
BLV	20 µg/l Parameter: Toluene - Medium: blood - Sampling time: end of workweek (Semi-quantitative (ambiguous interpretation)) Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift (per the Authority, the values for this substance must be decided and/or determined on a case by case basis. Guidance for the calculation of and interpretation of values is provided in the source)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA)	190 mg/m <sup>3</sup> 50 ppm
AGW (OEL C)	760 mg/m <sup>3</sup>
AGW (OEL C) [ppm]	200 ppm
Chemical category	Skin notation
<b>Germany - Biological limit values (TRGS 903)</b>	
Biological limit value	600 µg/l Parameter: Toluene - Medium: whole blood - Sampling time: immediately after exposure 75 µg/l Parameter: Toluene - Medium: urine - Sampling time: end of shift 1.5 mg/l Parameter: o-Cresol (after hydrolysis) - Medium: urine - Sampling time: for long-term exposures: at the end of the shift after several shifts 1.5 mg/l Parameter: o-Cresol (after hydrolysis) - Medium: urine - Sampling time: end of shift
<b>Gibraltar - Occupational Exposure Limits</b>	
OEL TWA	192 mg/m <sup>3</sup> 50 ppm
OEL STEL	384 mg/m <sup>3</sup> 100 ppm
OEL chemical category	Skin notation
<b>Greece - Occupational Exposure Limits</b>	
OEL TWA	192 mg/m <sup>3</sup> 50 ppm
OEL STEL	384 mg/m <sup>3</sup> 100 ppm
OEL chemical category	skin - potential for cutaneous absorption
<b>Hungary - Occupational Exposure Limits</b>	
AK (OEL TWA)	190
CK (OEL STEL)	380 mg/m <sup>3</sup>
OEL chemical category	Potential for cutaneous absorption
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA	192 mg/m <sup>3</sup> 50 ppm
OEL STEL	384 mg/m <sup>3</sup> 100 ppm
OEL chemical category	Potential for cutaneous absorption

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<b>Toluene (108-88-3)</b>	
<b>Italy - Occupational Exposure Limits</b>	
OEL TWA	192 mg/m <sup>3</sup>
	50 ppm
OEL chemical category	skin - potential for cutaneous absorption
<b>Latvia - Occupational Exposure Limits</b>	
OEL TWA	50 mg/m <sup>3</sup>
	14 ppm
OEL STEL	150 mg/m <sup>3</sup>
	40 ppm
OEL chemical category	skin - potential for cutaneous exposure
<b>Latvia - Biological Exposure Indices</b>	
BEI	1.6 g/g creatinine Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift 0.05 mg/l Parameter: Toluene - Medium: blood - Sampling time: end of shift
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (OEL TWA)	192 mg/m <sup>3</sup>
	50 ppm
TPRV (OEL STEL)	384 mg/m <sup>3</sup>
	100 ppm
OEL chemical category	Reproductive toxin, Skin notation
<b>Luxembourg - Occupational Exposure Limits</b>	
OEL TWA	192 mg/m <sup>3</sup>
	50 ppm
OEL STEL	384 mg/m <sup>3</sup>
	100 ppm
OEL chemical category	Possibility of significant uptake through the skin
<b>Malta - Occupational Exposure Limits</b>	
OEL TWA	192 mg/m <sup>3</sup>
	50 ppm
OEL STEL	384 mg/m <sup>3</sup>
	100 ppm
OEL chemical category	Possibility of significant uptake through the skin
<b>Netherlands - Occupational Exposure Limits</b>	
TGG-8u (OEL TWA)	150 mg/m <sup>3</sup>
	39 ppm
TGG-15min (OEL STEL)	384 mg/m <sup>3</sup>
	100 ppm
<b>Poland - Occupational Exposure Limits</b>	
NDS (OEL TWA)	100 mg/m <sup>3</sup>
NDSch (OEL STEL)	200 mg/m <sup>3</sup>

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<b>Toluene (108-88-3)</b>	
<b>Portugal - Occupational Exposure Limits</b>	
OEL TWA	192 mg/m <sup>3</sup> (indicative limit value)
	50 ppm (indicative limit value)
OEL STEL	384 mg/m <sup>3</sup> (indicative limit value)
	100 ppm (indicative limit value)
OEL chemical category	A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure indicative limit value
<b>Romania - Occupational Exposure Limits</b>	
OEL TWA	192 mg/m <sup>3</sup>
	50 ppm
OEL STEL	384 mg/m <sup>3</sup>
	100 ppm
OEL chemical category	Skin notation
<b>Romania - Biological limit values</b>	
BLV	2 g/l Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift 3 mg/l Parameter: o-Cresol - Medium: urine - Sampling time: end of shift
<b>Slovakia - Occupational Exposure Limits</b>	
NPHV (OEL TWA)	192 mg/m <sup>3</sup>
	50 ppm
NPHV (OEL C)	384 mg/m <sup>3</sup>
OEL chemical category	Potential for cutaneous absorption
<b>Slovakia - Biological limit values</b>	
BLV	600 µg/l Parameter: Toluene - Medium: blood - Sampling time: end of exposure or work shift 1.5 mg/l Parameter: o-Cresol - Medium: urine - Sampling time: after all work shifts (for long-term exposure) 1.5 mg/l Parameter: o-Cresol - Medium: urine - Sampling time: end of exposure or work shift 1600 mg/g creatinine Parameter: Hippuric acid - Sampling time: end of exposure or work shift
<b>Slovenia - Occupational Exposure Limits</b>	
OEL TWA	192 mg/m <sup>3</sup>
	50 ppm
OEL STEL	384 mg/m <sup>3</sup>
	100 ppm
OEL chemical category	Category 2, Potential for cutaneous absorption
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA)	191 mg/m <sup>3</sup>
	50 ppm
VLA-EC (OEL STEL)	384 mg/m <sup>3</sup>
	100 ppm
OEL chemical category	skin - potential for cutaneous absorption

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<b>Toluene (108-88-3)</b>	
<b>Spain - Biological limit values</b>	
BLV	0.6 mg/l Parameter: o-Cresol - Medium: urine - Sampling time: end of shift 0.05 mg/l Parameter: Toluene - Medium: blood - Sampling time: start of last shift of workweek 0.08 mg/l Parameter: Toluene - Medium: urine - Sampling time: end of shift
<b>Sweden - Occupational Exposure Limits</b>	
NGV (OEL TWA)	192 mg/m <sup>3</sup> 50 ppm
KGV (OEL STEL)	384 mg/m <sup>3</sup> 100 ppm
OEL chemical category	Skin notation
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (OEL TWA)	191 mg/m <sup>3</sup> 50 ppm
WEL STEL (OEL STEL)	384 mg/m <sup>3</sup> 100 ppm
WEL chemical category	Potential for cutaneous absorption
<b>Norway - Occupational Exposure Limits</b>	
Grønseverdi (OEL TWA)	94 mg/m <sup>3</sup> 25 ppm
Korttidsverdi (OEL STEL)	141 mg/m <sup>3</sup> (value calculated) 37.5 ppm (value calculated)
OEL chemical category	Skin notation
<b>Switzerland - Occupational Exposure Limits</b>	
MAK (OEL TWA)	190 mg/m <sup>3</sup> 50 ppm
KZGW (OEL STEL)	760 mg/m <sup>3</sup> 200 ppm
OEL chemical category	Skin notation, Category 2 reproductive toxin
<b>Switzerland - BAT</b>	
BAT	600 µg/l Parameter: Toluene - Medium: whole blood - Sampling time: end of shift 6.48 µmol/l Parameter: Toluene - Medium: whole blood - Sampling time: end of shift 2 g/g creatinine Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift, and after several shifts (for long-term exposures) Parameter: Hippuric acid - Medium: urine - Sampling time: end of shift, and after several shifts (for long-term exposures) 0.5 mg/l Parameter: o-Cresol - Medium: urine - Sampling time: end of shift, and after several shifts (for long-term exposures) 4.62 µmol/l Parameter: o-Cresol - Medium: urine - Sampling time: end of shift, and after several shifts (for long-term exposures) 75 µg/l Parameter: Toluol - Medium: urine - Sampling time: end of shift
<b>Turkey - Occupational Exposure Limits</b>	
OEL TWA	192 mg/m <sup>3</sup>

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<b>Toluene (108-88-3)</b>	
	50 ppm
OEL STEL	384 mg/m <sup>3</sup>
	100 ppm
OEL chemical category	Skin notation
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Toluene
ACGIH® TLV® TWA	20 ppm
Remark (ACGIH)	TLV® Basis: CNS, visual & hearing impair; female repro system eff; pregnancy loss. Notations: OTO; A4 (Not classifiable as a Human Carcinogen); BEI
ACGIH chemical category	Not Classifiable as a Human Carcinogen
Regulatory reference	ACGIH 2024
<b>USA - ACGIH - Biological Exposure Indices</b>	
Local name	Toluene
BEI	0.02 mg/l Parameter: Toluene - Medium: blood - Sampling time: prior to last shift of workweek 0.03 mg/l Parameter: Toluene - Medium: urine - Sampling time: end of shift 0.3 mg/g creatinine Parameter: o-Cresol with hydrolysis - Medium: urine - Sampling time: end of shift (background)
Regulatory reference	ACGIH 2024
<b>Benzene (71-43-2)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOEL TWA	3.25 mg/m <sup>3</sup>
	1 ppm
<b>Austria - Occupational Exposure Limits</b>	
MAK (OEL TWA)	3.2 mg/m <sup>3</sup>
	1 ppm
MAK (OEL STEL)	12.8 mg/m <sup>3</sup>
	4 ppm
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	3.25 mg/m <sup>3</sup>
	1 ppm
<b>Denmark - Occupational Exposure Limits</b>	
OEL TWA	1.6 mg/m <sup>3</sup>
	0.5 ppm
OEL STEL	3.2 mg/m <sup>3</sup>
	1 ppm
<b>Finland - Occupational Exposure Limits</b>	
HTP (OEL TWA)	3.25 mg/m <sup>3</sup>
	1 ppm
BOEL TWA	3.25 mg/m <sup>3</sup>

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<b>Benzene (71-43-2)</b>	
	1 ppm
<b>France - Occupational Exposure Limits</b>	
VME (OEL TWA)	3.25 mg/m <sup>3</sup>
	1 ppm
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA)	1.9 mg/m <sup>3</sup>
	0.6 ppm
AGW (OEL C)	15.2 mg/m <sup>3</sup>
AGW (OEL C) [ppm]	4.8 ppm
<b>Hungary - Occupational Exposure Limits</b>	
CK (OEL STEL)	3 mg/m <sup>3</sup>
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA	3 mg/m <sup>3</sup>
	1 ppm
<b>Italy - Occupational Exposure Limits</b>	
OEL TWA	3.25 mg/m <sup>3</sup>
	1 ppm
<b>Latvia - Occupational Exposure Limits</b>	
OEL TWA	3.25 mg/m <sup>3</sup>
	1 ppm
<b>Netherlands - Occupational Exposure Limits</b>	
TGG-8u (OEL TWA)	3.25 mg/m <sup>3</sup>
<b>Poland - Occupational Exposure Limits</b>	
NDS (OEL TWA)	1.6 mg/m <sup>3</sup>
<b>Romania - Occupational Exposure Limits</b>	
OEL TWA	3.25 mg/m <sup>3</sup>
	1 ppm
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA)	3.25 mg/m <sup>3</sup>
	1 ppm
<b>Sweden - Occupational Exposure Limits</b>	
NGV (OEL TWA)	1.5 mg/m <sup>3</sup>
	0.5 ppm
KGV (OEL STEL)	9 mg/m <sup>3</sup>
	3 ppm
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (OEL TWA)	1 ppm
<b>Switzerland - Occupational Exposure Limits</b>	
MAK (OEL TWA)	1.6 mg/m <sup>3</sup>

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<b>Benzene (71-43-2)</b>	
	0.5 ppm
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Benzene
ACGIH® TLV® TWA	0.5 ppm
ACGIH® TLV® STEL	2.5 ppm
Remark (ACGIH)	TLV® Basis: Myelodysplastic syndrome; acute myeloid leukemia; leukemia; hematologic eff; chromosomal dam. Notations: Skin; A1 (Confirmed Human Carcinogen); BEI
Regulatory reference	ACGIH 2024
<b>USA - ACGIH - Biological Exposure Indices</b>	
Local name	Benzene
BEI	25 µg/g creatinine Parameter: S-Phenylmercapturic acid - Medium: urine - Sampling time: End of shift - Notations: B 500 µg/g creatinine Parameter: t,t-Muconic acid - Medium: urine - Sampling time: End of shift - Notations: B
Regulatory reference	ACGIH 2024
<b>Ethylbenzene (100-41-4)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOEL TWA	442 mg/m <sup>3</sup>
	100 ppm
IOEL STEL	884 mg/m <sup>3</sup>
	200 ppm
Remark	Possibility of significant uptake through the skin
<b>Austria - Occupational Exposure Limits</b>	
MAK (OEL TWA)	440 mg/m <sup>3</sup>
	100 ppm
MAK (OEL STEL)	880 mg/m <sup>3</sup>
	200 ppm
OEL chemical category	Skin notation
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	442 mg/m <sup>3</sup>
	100 ppm
OEL STEL	551 mg/m <sup>3</sup>
	125 ppm
OEL chemical category	Skin, Skin notation
<b>Bulgaria - Occupational Exposure Limits</b>	
OEL TWA	435 mg/m <sup>3</sup>
OEL STEL	545 mg/m <sup>3</sup>
<b>Bulgaria - Biological limit values</b>	
BLV	2000 mg/g creatinine Parameter: Mandelic acid and Phenylglyoxylic acid - total - Medium: urine - Sampling time: at the end of exposure or end of work shift (possible significant absorption through the skin)

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<b>Ethylbenzene (100-41-4)</b>	
<b>Croatia - Occupational Exposure Limits</b>	
GVI (OEL TWA)	442 mg/m <sup>3</sup>
	100 ppm
KGVI (OEL STEL)	884 mg/m <sup>3</sup>
	200 ppm
OEL chemical category	Skin notation
<b>Croatia - Biological limit values</b>	
BLV	1.5 mg/l Parameter: Ethylbenzene - Medium: blood - Sampling time: during exposure 1.5 g/g creatinine Parameter: Mandelic acid - Medium: urine - Sampling time: at the end of the work shift and at the end of the working week (calculated on the average Creatinine value of 1.2 g/L urine)
<b>Cyprus - Occupational Exposure Limits</b>	
OEL TWA	442 mg/m <sup>3</sup>
	100 ppm
OEL STEL	884 mg/m <sup>3</sup>
	200 ppm
OEL chemical category	Skin-potential for cutaneous absorption
<b>Czech Republic - Occupational Exposure Limits</b>	
PEL (OEL TWA)	200 mg/m <sup>3</sup>
OEL chemical category	Potential for cutaneous absorption
<b>Czech Republic - Biological limit values</b>	
BLV	1100 µmol/mmol Creatinine Parameter: Mandelic acid - Medium: urine - Sampling time: end of shift 1500 mg/g creatinine Parameter: Mandelic acid - Medium: urine - Sampling time: end of shift
<b>Denmark - Occupational Exposure Limits</b>	
OEL TWA	217 mg/m <sup>3</sup>
	50 ppm
OEL STEL	434 mg/m <sup>3</sup>
	100 ppm
OEL chemical category	Potential for cutaneous absorption
<b>Estonia - Occupational Exposure Limits</b>	
OEL TWA	442 mg/m <sup>3</sup>
	100 ppm
OEL STEL	884 mg/m <sup>3</sup>
	200 ppm
OEL chemical category	Skin notation, Sensitizer
<b>Finland - Occupational Exposure Limits</b>	
HTP (OEL TWA)	220 mg/m <sup>3</sup>
	50 ppm
HTP (OEL STEL)	880 mg/m <sup>3</sup>

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<b>Ethylbenzene (100-41-4)</b>	
	200 ppm
OEL chemical category	Potential for cutaneous absorption
<b>Finland - Biological limit values</b>	
BLV	Parameter: Mandelic acid - Medium: urine - Sampling time: after the shift after a working week or exposure period
<b>France - Occupational Exposure Limits</b>	
VME (OEL TWA)	88.4 mg/m <sup>3</sup> TWA [VME] (restrictive limit)
	20 ppm TWA [VME] (restrictive limit)
VLE (OEL C/STEL)	442 mg/m <sup>3</sup> STEL [VLCT] (restrictive limit)
	100 ppm STEL [VLCT] (restrictive limit)
OEL chemical category	risk of cutaneous absorption
<b>France - Biological limit values</b>	
BLV	Parameter: Mandelic acid - Medium: urine - Sampling time: end of shift at end of workweek (per the Authority, the values for this substance must be decided and/or determined on a case by case basis. Guidance for the calculation of and interpretation of values is provided in the source)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA)	88 mg/m <sup>3</sup>
	20 ppm
AGW (OEL C)	176 mg/m <sup>3</sup>
AGW (OEL C) [ppm]	40 ppm
Chemical category	Skin notation
<b>Germany - Biological limit values (TRGS 903)</b>	
Biological limit value	250 mg/g creatinine Parameter: Mandelic acid plus Phenylglyoxylic acid - Medium: urine - Sampling time: end of shift
<b>Gibraltar - Occupational Exposure Limits</b>	
OEL TWA	442 mg/m <sup>3</sup>
	100 ppm
OEL STEL	884 mg/m <sup>3</sup>
	200 ppm
OEL chemical category	Skin notation
<b>Greece - Occupational Exposure Limits</b>	
OEL TWA	435 mg/m <sup>3</sup>
	100 ppm
OEL STEL	545 mg/m <sup>3</sup>
	125 ppm
<b>Hungary - Occupational Exposure Limits</b>	
AK (OEL TWA)	442 mg/m <sup>3</sup>
CK (OEL STEL)	884 mg/m <sup>3</sup>
OEL chemical category	Potential for cutaneous absorption

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<b>Ethylbenzene (100-41-4)</b>	
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA	442 mg/m <sup>3</sup>
	100 ppm
OEL STEL	884 mg/m <sup>3</sup>
	200 ppm
OEL chemical category	Potential for cutaneous absorption
<b>Italy - Occupational Exposure Limits</b>	
OEL TWA	442 mg/m <sup>3</sup>
	100 ppm
OEL STEL	884 mg/m <sup>3</sup>
	200 ppm
OEL chemical category	skin - potential for cutaneous absorption
<b>Latvia - Occupational Exposure Limits</b>	
OEL TWA	442 mg/m <sup>3</sup>
	100 ppm
OEL STEL	884 mg/m <sup>3</sup>
	200 ppm
OEL chemical category	skin - potential for cutaneous exposure
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (OEL TWA)	442 mg/m <sup>3</sup>
	100 ppm
TPRV (OEL STEL)	884 mg/m <sup>3</sup>
	200 ppm
OEL chemical category	Skin notation
<b>Luxembourg - Occupational Exposure Limits</b>	
OEL TWA	442 mg/m <sup>3</sup>
	100 ppm
OEL STEL	884 mg/m <sup>3</sup>
	200 ppm
OEL chemical category	Possibility of significant uptake through the skin
<b>Malta - Occupational Exposure Limits</b>	
OEL TWA	442 mg/m <sup>3</sup>
	100 ppm
OEL STEL	884 mg/m <sup>3</sup>
	200 ppm
OEL chemical category	Possibility of significant uptake through the skin
<b>Netherlands - Occupational Exposure Limits</b>	
TGG-8u (OEL TWA)	215 mg/m <sup>3</sup>
	48.6 ppm

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<b>Ethylbenzene (100-41-4)</b>	
TGG-15min (OEL STEL)	430 mg/m <sup>3</sup>
	97.3 ppm
MAC chemical category	Skin notation
<b>Poland - Occupational Exposure Limits</b>	
NDS (OEL TWA)	200 mg/m <sup>3</sup>
NDSCh (OEL STEL)	400 mg/m <sup>3</sup>
<b>Portugal - Occupational Exposure Limits</b>	
OEL TWA	442 mg/m <sup>3</sup> (indicative limit value)
	100 ppm (indicative limit value)
OEL STEL	884 mg/m <sup>3</sup> (indicative limit value)
	200 ppm (indicative limit value)
OEL chemical category	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans, skin - potential for cutaneous exposure indicative limit value
<b>Romania - Occupational Exposure Limits</b>	
OEL TWA	442 mg/m <sup>3</sup>
	100 ppm
OEL STEL	884 mg/m <sup>3</sup>
	200 ppm
OEL chemical category	Skin notation
<b>Romania - Biological limit values</b>	
BLV	1.5 g/g creatinine Parameter: Mandelic acid - Medium: urine - Sampling time: end of work week
<b>Slovakia - Occupational Exposure Limits</b>	
NPHV (OEL TWA)	442 mg/m <sup>3</sup>
	100 ppm
NPHV (OEL C)	884 mg/m <sup>3</sup>
OEL chemical category	Potential for cutaneous absorption
<b>Slovakia - Biological limit values</b>	
BLV	12 mg/l Parameter: 2 and 4-Ethylphenol - Medium: urine - Sampling time: end of exposure or work shift (also after all work shifts for long-term exposure) 1600 mg/l Parameter: Mandelic acid and Phenylglycolic acid - Medium: urine - Sampling time: end of exposure or work shift (also after all work shifts for long-term exposure)
<b>Slovenia - Occupational Exposure Limits</b>	
OEL TWA	442 mg/m <sup>3</sup>
	100 ppm
OEL STEL	884 mg/m <sup>3</sup>
	200 ppm
OEL chemical category	Potential for cutaneous absorption
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA)	441 mg/m <sup>3</sup>
	100 ppm

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<b>Ethylbenzene (100-41-4)</b>	
VLA-EC (OEL STEL)	884 mg/m <sup>3</sup>
	200 ppm
OEL chemical category	skin - potential for cutaneous absorption
<b>Spain - Biological limit values</b>	
BLV	700 mg/g creatinine Parameter: Mandelic acid plus Phenylglyoxylic acid - Medium: urine - Sampling time: end of workweek
<b>Sweden - Occupational Exposure Limits</b>	
NGV (OEL TWA)	220 mg/m <sup>3</sup>
	50 ppm
KGV (OEL STEL)	884 mg/m <sup>3</sup>
	200 ppm
OEL chemical category	Skin notation
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (OEL TWA)	441 mg/m <sup>3</sup>
	100 ppm
WEL STEL (OEL STEL)	552 mg/m <sup>3</sup>
	125 ppm
OEL chemical category	Potential for cutaneous absorption
<b>Norway - Occupational Exposure Limits</b>	
Grenseverdi (OEL TWA)	20 mg/m <sup>3</sup>
	5 ppm
Korttidsverdi (OEL STEL)	30 mg/m <sup>3</sup> (value calculated)
	10 ppm (value calculated)
OEL chemical category	Skin notation, Carcinogen
<b>Switzerland - Occupational Exposure Limits</b>	
MAK (OEL TWA)	435 mg/m <sup>3</sup>
	100 ppm
KZGW (OEL STEL)	435 mg/m <sup>3</sup>
	100 ppm
OEL chemical category	Skin notation
<b>Switzerland - BAT</b>	
BAT	600 mg/g creatinine Parameter: Mandelic acid and Phenylglyoxylacid - Medium: urine - Sampling time: end of shift (see also Styrene)
<b>Turkey - Occupational Exposure Limits</b>	
OEL TWA	442 mg/m <sup>3</sup>
	100 ppm
OEL STEL	884 mg/m <sup>3</sup>
	200 ppm
OEL chemical category	Skin notation

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<b>Ethylbenzene (100-41-4)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Ethyl benzene
ACGIH® TLV® TWA	20 ppm
Remark (ACGIH)	TLV® Basis: URT & eye irr; ototoxicity; kidney eff; CNS impair. Notations: OTO (Ototoxicant); A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
Regulatory reference	ACGIH 2024
<b>USA - ACGIH - Biological Exposure Indices</b>	
Local name	Ethyl benzene
BEI	150 mg/g creatinine Parameter: Sum of mandelic acid and phenylglyoxylic acid - Medium: urine - Sampling time: End of shift - Notations: Ns
Regulatory reference	ACGIH 2024
<b>Naphthalene (91-20-3)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOEL TWA	50 mg/m <sup>3</sup>
	10 ppm
<b>Austria - Occupational Exposure Limits</b>	
MAK (OEL TWA)	50 mg/m <sup>3</sup>
	10 ppm
OEL chemical category	Skin notation, Group B Carcinogen
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	53 mg/m <sup>3</sup>
	10 ppm
OEL STEL	80 mg/m <sup>3</sup>
	5 ppm
OEL chemical category	Skin
<b>Bulgaria - Occupational Exposure Limits</b>	
OEL TWA	50 mg/m <sup>3</sup>
OEL STEL	75 mg/m <sup>3</sup>
<b>Croatia - Occupational Exposure Limits</b>	
GVI (OEL TWA)	50 mg/m <sup>3</sup>
	10 ppm
<b>Cyprus - Occupational Exposure Limits</b>	
OEL TWA	50 mg/m <sup>3</sup>
	10 ppm
<b>Czech Republic - Occupational Exposure Limits</b>	
PEL (OEL TWA)	50 mg/m <sup>3</sup>
<b>Denmark - Occupational Exposure Limits</b>	
OEL TWA	50 mg/m <sup>3</sup>

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Naphthalene (91-20-3)	
	10 ppm
OEL STEL	100 mg/m <sup>3</sup>
	20 ppm
Estonia - Occupational Exposure Limits	
OEL TWA	50 mg/m <sup>3</sup>
	10 ppm
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	5 mg/m <sup>3</sup>
	1 ppm
HTP (OEL STEL)	10 mg/m <sup>3</sup>
	2 ppm
France - Occupational Exposure Limits	
VME (OEL TWA)	50 mg/m <sup>3</sup>
	10 ppm
OEL chemical category	Carcinogen category 2
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA)	2 mg/m <sup>3</sup>
	0.4 ppm
AGW (OEL C)	8 mg/m <sup>3</sup>
AGW (OEL C) [ppm]	1.6 ppm
Chemical category	Skin notation
Gibraltar - Occupational Exposure Limits	
OEL TWA	50 mg/m <sup>3</sup>
	10 ppm
Greece - Occupational Exposure Limits	
OEL TWA	50 mg/m <sup>3</sup>
	10 ppm
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	50 mg/m <sup>3</sup>
Ireland - Occupational Exposure Limits	
OEL TWA	50 mg/m <sup>3</sup>
	10 ppm
OEL STEL	75 mg/m <sup>3</sup>
	15 ppm
Italy - Occupational Exposure Limits	
OEL TWA	50 mg/m <sup>3</sup>
	10 ppm
Latvia - Occupational Exposure Limits	
OEL TWA	50 mg/m <sup>3</sup>

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Naphthalene (91-20-3)	
	10 ppm
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	50 mg/m <sup>3</sup>
	10 ppm
OEL chemical category	Carcinogen
Luxembourg - Occupational Exposure Limits	
OEL TWA	50 mg/m <sup>3</sup>
	10 ppm
Malta - Occupational Exposure Limits	
OEL TWA	50 mg/m <sup>3</sup>
	10 ppm
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	50 mg/m <sup>3</sup>
	10 ppm
TGG-15min (OEL STEL)	80 mg/m <sup>3</sup>
	16 ppm
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	20 mg/m <sup>3</sup>
NDSCh (OEL STEL)	50 mg/m <sup>3</sup>
NDSP (OEL C)	50 mg/m <sup>3</sup>
Portugal - Occupational Exposure Limits	
OEL TWA	50 mg/m <sup>3</sup> (indicative limit value)
	10 ppm (indicative limit value)
OEL STEL	15 ppm
OEL chemical category	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans, skin - potential for cutaneous exposure
Romania - Occupational Exposure Limits	
OEL TWA	50 mg/m <sup>3</sup>
	9.5 ppm
OEL chemical category	C2
Slovakia - Occupational Exposure Limits	
NPHV (OEL TWA)	50 mg/m <sup>3</sup>
	10 ppm
NPHV (OEL C)	80 mg/m <sup>3</sup>
OEL chemical category	Potential for cutaneous absorption
Slovenia - Occupational Exposure Limits	
OEL TWA	50 mg/m <sup>3</sup> (inhalable fraction)
	10 ppm
OEL STEL	50 mg/m <sup>3</sup> (inhalable fraction)

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Naphthalene (91-20-3)	
	10 ppm
OEL chemical category	Category 2, Potential for cutaneous absorption
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	53 mg/m <sup>3</sup> 10 ppm
VLA-EC (OEL STEL)	80 mg/m <sup>3</sup> 15 ppm
OEL chemical category	skin - potential for cutaneous absorption
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	50 mg/m <sup>3</sup> 10 ppm
KGV (OEL STEL)	80 mg/m <sup>3</sup> 15 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	53 mg/m <sup>3</sup> 10 ppm
WEL STEL (OEL STEL)	80 mg/m <sup>3</sup> 15 ppm
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA)	50 mg/m <sup>3</sup> 10 ppm
Korttidsverdi (OEL STEL)	75 mg/m <sup>3</sup> (value calculated) 20 ppm (value calculated)
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	50 mg/m <sup>3</sup> (aerosol, vapour) 10 ppm (aerosol, vapour)
OEL chemical category	Skin notation, Category C2 carcinogen
Turkey - Occupational Exposure Limits	
OEL TWA	50 mg/m <sup>3</sup> 10 ppm
USA - ACGIH - Occupational Exposure Limits	
Local name	Naphthalene
ACGIH® TLV® TWA	10 ppm
ACGIH® TLV® STEL	15 ppm
Remark (ACGIH)	TLV® Basis: URT irr; cararacts; hemolytic anemia. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans, Skin - potential significant contribution to overall exposure by the cutaneous route
Regulatory reference	ACGIH 2024

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<b>Naphthalene (91-20-3)</b>	
<b>USA - ACGIH - Biological Exposure Indices</b>	
Local name	Naphthalene
BEI	Parameter: 1-Naphthol with hydrolysis plus 2-Naphthol with hydrolysis - Sampling time: end of shift (nonquantitative, nonspecific)
Regulatory reference	ACGIH 2024
<b>Cyclohexane (110-82-7)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOEL TWA	700 mg/m <sup>3</sup>
	200 ppm
<b>Austria - Occupational Exposure Limits</b>	
MAK (OEL TWA)	700 mg/m <sup>3</sup>
	200 ppm
MAK (OEL STEL)	2800 mg/m <sup>3</sup>
	800 ppm
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	350 mg/m <sup>3</sup>
	100 ppm
<b>Bulgaria - Occupational Exposure Limits</b>	
OEL TWA	700 mg/m <sup>3</sup>
	200 ppm
<b>Croatia - Occupational Exposure Limits</b>	
GVI (OEL TWA)	700 mg/m <sup>3</sup>
	200 ppm
OEL chemical category	Skin notation
<b>Croatia - Biological limit values</b>	
BLV	150 mg/g creatinine Parameter: 1,2-Cyclohexanediol - Medium: urine - Sampling time: at the end of the work shift; at chronic exposure after several successive shifts (calculated on the average Creatinine value of 1.2 g/L urine) 450 µg/l Parameter: Cyclohexanol - Medium: blood - Sampling time: during exposure 3.2 mg/g creatinine Parameter: Cyclohexanol - Medium: urine - Sampling time: during the second half of the work shift (calculated on the average Creatinine value of 1.2 g/L urine)
<b>Cyprus - Occupational Exposure Limits</b>	
OEL TWA	700 mg/m <sup>3</sup>
	200 ppm
<b>Czech Republic - Occupational Exposure Limits</b>	
PEL (OEL TWA)	700 mg/m <sup>3</sup>
<b>Denmark - Occupational Exposure Limits</b>	
OEL TWA	172 mg/m <sup>3</sup>
	50 ppm
OEL STEL	344 mg/m <sup>3</sup>
	100 ppm

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<b>Cyclohexane (110-82-7)</b>	
<b>Estonia - Occupational Exposure Limits</b>	
OEL TWA	700 mg/m <sup>3</sup>
	200 ppm
<b>Finland - Occupational Exposure Limits</b>	
HTP (OEL TWA)	350 mg/m <sup>3</sup>
	100 ppm
HTP (OEL STEL)	875 mg/m <sup>3</sup>
	250 ppm
<b>France - Occupational Exposure Limits</b>	
VME (OEL TWA)	700 mg/m <sup>3</sup>
	200 ppm
VLE (OEL C/STEL)	1300 mg/m <sup>3</sup> (restrictive limit: this value is not set by regulation and comes from a circular published by the Ministry of Labor.)
	375 ppm (restrictive limit: this value is not set by regulation and comes from a circular published by the Ministry of Labor.)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA)	700 mg/m <sup>3</sup>
	200 ppm
AGW (OEL C)	2800 mg/m <sup>3</sup>
AGW (OEL C) [ppm]	800 ppm
<b>Germany - Biological limit values (TRGS 903)</b>	
Biological limit value	150 mg/g creatinine Parameter: total 1,2-Cyclohexanediol (after hydrolysis) - Medium: urine - Sampling time: end of shift 150 mg/g creatinine Parameter: total 1,2-Cyclohexanediol (after hydrolysis) - Medium: urine - Sampling time: for long-term exposures: at the end of the shift after several shifts
<b>Gibraltar - Occupational Exposure Limits</b>	
OEL TWA	700 mg/m <sup>3</sup>
	200 ppm
<b>Greece - Occupational Exposure Limits</b>	
OEL TWA	700 mg/m <sup>3</sup>
	200 ppm
<b>Hungary - Occupational Exposure Limits</b>	
AK (OEL TWA)	700 mg/m <sup>3</sup>
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA	700 mg/m <sup>3</sup>
	200 ppm
OEL STEL	2100 mg/m <sup>3</sup> (calculated)
	600 ppm (calculated)
<b>Italy - Occupational Exposure Limits</b>	
OEL TWA	350 mg/m <sup>3</sup>
	100 ppm

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Cyclohexane (110-82-7)	
<b>Latvia - Occupational Exposure Limits</b>	
OEL TWA	80 mg/m <sup>3</sup>
	23 ppm
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (OEL TWA)	700 mg/m <sup>3</sup>
	200 ppm
<b>Luxembourg - Occupational Exposure Limits</b>	
OEL TWA	700 mg/m <sup>3</sup>
	200 ppm
<b>Malta - Occupational Exposure Limits</b>	
OEL TWA	700 mg/m <sup>3</sup>
	200 ppm
<b>Netherlands - Occupational Exposure Limits</b>	
TGG-8u (OEL TWA)	700 mg/m <sup>3</sup>
	200 ppm
TGG-15min (OEL STEL)	1400 mg/m <sup>3</sup>
	400 ppm
<b>Poland - Occupational Exposure Limits</b>	
NDS (OEL TWA)	300 mg/m <sup>3</sup>
NDSch (OEL STEL)	1000 mg/m <sup>3</sup>
<b>Portugal - Occupational Exposure Limits</b>	
OEL TWA	700 mg/m <sup>3</sup> (indicative limit value)
	200 ppm (indicative limit value)
<b>Romania - Occupational Exposure Limits</b>	
OEL TWA	700 mg/m <sup>3</sup>
	200 ppm
<b>Slovakia - Occupational Exposure Limits</b>	
NPHV (OEL TWA)	700 mg/m <sup>3</sup>
	200 ppm
<b>Slovenia - Occupational Exposure Limits</b>	
OEL TWA	700 mg/m <sup>3</sup>
	200 ppm
OEL STEL	2800 mg/m <sup>3</sup>
	800 ppm
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA)	700 mg/m <sup>3</sup>
	200 ppm
<b>Sweden - Occupational Exposure Limits</b>	
NGV (OEL TWA)	700 mg/m <sup>3</sup>

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Cyclohexane (110-82-7)	
	200 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	350 mg/m <sup>3</sup>
	100 ppm
WEL STEL (OEL STEL)	1050 mg/m <sup>3</sup>
	300 ppm
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA)	525 mg/m <sup>3</sup>
	150 ppm
Korttidsverdi (OEL STEL)	656.25 mg/m <sup>3</sup> (value calculated)
	187.5 ppm (value calculated)
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	700 mg/m <sup>3</sup>
	200 ppm
KZGW (OEL STEL)	2800 mg/m <sup>3</sup>
	800 ppm
Switzerland - BAT	
BAT	150 mg/g creatinine Parameter: total 1,2-Cyclohexanediol - Medium: urine - Sampling time: end of shift, and after several shifts (for long-term exposures) Parameter: total 1,2-Cyclohexanediol - Medium: urine - Sampling time: end of shift, and after several shifts (for long-term exposures)
Turkey - Occupational Exposure Limits	
OEL TWA	700 mg/m <sup>3</sup>
	200 ppm
USA - ACGIH - Occupational Exposure Limits	
Local name	Cyclohexane
ACGIH® TLV® TWA	100 ppm
Remark (ACGIH)	TLV® Basis: CNS impair
Regulatory reference	ACGIH 2024
USA - ACGIH - Biological Exposure Indices	
Local name	Cyclohexane
BEI	50 mg/g creatinine Parameter: 1,2-Cyclohexanediol - Medium: urine - Sampling time: End of shift, end of workweek - Notations: Ns
Regulatory reference	ACGIH 2024
Hexane (110-54-3)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	72 mg/m <sup>3</sup>
	20 ppm
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	72

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<b>Hexane (110-54-3)</b>	
	20 ppm
MAK (OEL STEL)	288
	80 ppm
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	72 mg/m <sup>3</sup>
	20 ppm
<b>Bulgaria - Occupational Exposure Limits</b>	
OEL TWA	72 mg/m <sup>3</sup>
	20 ppm
<b>Croatia - Occupational Exposure Limits</b>	
GVI (OEL TWA)	72 mg/m <sup>3</sup>
	20 ppm
OEL chemical category	Skin notation
<b>Croatia - Biological limit values</b>	
BLV	150 µg/l Parameter: n-Hexane - Medium: blood - Sampling time: during exposure 40 ppm Parameter: n-Hexane - Medium: final exhaled air - Sampling time: during exposure 0.2 mg/g creatinine Parameter: 2-Hexanol - Medium: urine - Sampling time: at the end of the work shift (calculated on the average Creatinine value of 1.2 g/L urine) 5.3 mg/g creatinine Parameter: 2,5-Hexanedione - Medium: urine - Sampling time: at the end of the work shift (calculated on the average Creatinine value of 1.2 g/L urine)
<b>Cyprus - Occupational Exposure Limits</b>	
OEL TWA	72 mg/m <sup>3</sup>
	20 ppm
<b>Czech Republic - Occupational Exposure Limits</b>	
PEL (OEL TWA)	70 mg/m <sup>3</sup>
OEL chemical category	Potential for cutaneous absorption
<b>Denmark - Occupational Exposure Limits</b>	
OEL TWA	90 mg/m <sup>3</sup>
	25 ppm
OEL STEL	180 mg/m <sup>3</sup>
	50 ppm
<b>Estonia - Occupational Exposure Limits</b>	
OEL TWA	72 mg/m <sup>3</sup>
	20 ppm
<b>Finland - Occupational Exposure Limits</b>	
HTP (OEL TWA)	72 mg/m <sup>3</sup>
	20 ppm
OEL chemical category	Potential for cutaneous absorption
<b>France - Occupational Exposure Limits</b>	
VME (OEL TWA)	72 mg/m <sup>3</sup>

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<b>Hexane (110-54-3)</b>	
	20 ppm
OEL chemical category	Reproductive Toxin category 2
<b>France - Biological limit values</b>	
BLV	Parameter: 2,5-Hexanedione - Medium: urine - Sampling time: end of shift (per the Authority, the values for this substance must be decided and/or determined on a case by case basis. Guidance for the calculation of and interpretation of values is provided in the source)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA)	180 mg/m <sup>3</sup> 50 ppm
AGW (OEL C)	1440 mg/m <sup>3</sup>
AGW (OEL C) [ppm]	400 ppm
<b>Germany - Biological limit values (TRGS 903)</b>	
Biological limit value	5 mg/l Parameter: 2,5-Hexandione plus 4,5-Dihydroxy-2-hexanone (after hydrolysis) - Medium: urine - Sampling time: end of shift
<b>Gibraltar - Occupational Exposure Limits</b>	
OEL TWA	72 mg/m <sup>3</sup> 20 ppm
<b>Greece - Occupational Exposure Limits</b>	
OEL TWA	72 mg/m <sup>3</sup> 20 ppm
<b>Hungary - Occupational Exposure Limits</b>	
AK (OEL TWA)	72 mg/m <sup>3</sup>
OEL chemical category	Potential for cutaneous absorption
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA	72 mg/m <sup>3</sup> 20 ppm
OEL STEL	216 mg/m <sup>3</sup> (calculated) 60 ppm (calculated)
OEL chemical category	Potential for cutaneous absorption
<b>Italy - Occupational Exposure Limits</b>	
OEL TWA	72 mg/m <sup>3</sup> 20 ppm
<b>Latvia - Occupational Exposure Limits</b>	
OEL TWA	72 mg/m <sup>3</sup> 20 ppm
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (OEL TWA)	72 mg/m <sup>3</sup> 20 ppm
OEL chemical category	Reproductive toxin

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<b>Hexane (110-54-3)</b>	
<b>Luxembourg - Occupational Exposure Limits</b>	
OEL TWA	72 mg/m <sup>3</sup>
	20 ppm
<b>Malta - Occupational Exposure Limits</b>	
OEL TWA	72 mg/m <sup>3</sup>
	20 ppm
<b>Netherlands - Occupational Exposure Limits</b>	
TGG-8u (OEL TWA)	72 mg/m <sup>3</sup>
	20 ppm
TGG-15min (OEL STEL)	144 mg/m <sup>3</sup>
	40 ppm
<b>Poland - Occupational Exposure Limits</b>	
NDS (OEL TWA)	72 mg/m <sup>3</sup>
<b>Portugal - Occupational Exposure Limits</b>	
OEL TWA	72 mg/m <sup>3</sup> (indicative limit value)
	20 ppm (indicative limit value)
OEL chemical category	skin - potential for cutaneous exposure
<b>Romania - Occupational Exposure Limits</b>	
OEL TWA	72 mg/m <sup>3</sup>
	20 ppm
<b>Romania - Biological limit values</b>	
BLV	5 mg/g creatinine Parameter: 2,5-Hexandion - Medium: urine - Sampling time: end of shift
<b>Slovakia - Occupational Exposure Limits</b>	
NPHV (OEL TWA)	20 mg/m <sup>3</sup>
	72 mg/m <sup>3</sup>
NPHV (OEL C)	140 mg/m <sup>3</sup>
<b>Slovakia - Biological limit values</b>	
BLV	5 mg/l Parameter: 2,5-Hexanedione - Medium: urine - Sampling time: end of exposure or work shift 5 mg/l Parameter: 4,5-Dihydroxy-2-hexanone - Medium: urine - Sampling time: end of exposure or work shift
<b>Slovenia - Occupational Exposure Limits</b>	
OEL TWA	72 mg/m <sup>3</sup>
	20 ppm
OEL STEL	576 mg/m <sup>3</sup>
	160 ppm
OEL chemical category	Category 2
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA)	72 mg/m <sup>3</sup>
	20 ppm

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<b>Hexane (110-54-3)</b>	
<b>Spain - Biological limit values</b>	
BLV	0.2 mg/l Parameter: 2,5-Hexanedione - Medium: urine - Sampling time: end of workweek (without hydrolysis)
<b>Sweden - Occupational Exposure Limits</b>	
NGV (OEL TWA)	72 mg/m <sup>3</sup>
	20 ppm
KGV (OEL STEL)	180 mg/m <sup>3</sup>
	50 ppm
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (OEL TWA)	72 mg/m <sup>3</sup>
	20 ppm
WEL STEL (OEL STEL)	216 mg/m <sup>3</sup> (calculated)
	60 ppm (calculated)
<b>Norway - Occupational Exposure Limits</b>	
Grenseverdi (OEL TWA)	72 mg/m <sup>3</sup>
	20 ppm
Korttidsverdi (OEL STEL)	108 mg/m <sup>3</sup> (value calculated)
	30 ppm (value calculated)
OEL chemical category	Potential reproductive hazard
<b>Switzerland - Occupational Exposure Limits</b>	
MAK (OEL TWA)	180 mg/m <sup>3</sup>
	50 ppm
KZGW (OEL STEL)	1440 mg/m <sup>3</sup>
	400 ppm
OEL chemical category	Skin notation, Category 2 reproductive toxin
<b>Switzerland - BAT</b>	
BAT	5 mg/l Parameter: 2,5-Hexanedione plus 4,5-Dihydroxy-2-hexanone - Medium: urine - Sampling time: end of shift
<b>Turkey - Occupational Exposure Limits</b>	
OEL TWA	72 mg/m <sup>3</sup>
	20 ppm
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	n-Hexane
ACGIH® TLV® TWA	50 ppm
Remark (ACGIH)	TLV® Basis: CNS impair; peripheral neuropathy; eye irr. Notations: Skin; BEI
ACGIH chemical category	Skin - potential significant contribution to overall exposure by the cutaneous route
Regulatory reference	ACGIH 2024
<b>USA - ACGIH - Biological Exposure Indices</b>	
Local name	n-Hexane

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<b>Hexane (110-54-3)</b>	
BEI	0.5 mg/l Parameter: 2,5-Hexanedione without hydrolysis - Medium: urine - Sampling time: end of shift
Regulatory reference	ACGIH 2024
<b>Barium sulfate (7727-43-7)</b>	
<b>EU - Biological Limit Value (BLV)</b>	
Remark	OELs not established
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	5 mg/m <sup>3</sup> (without asbestos fibers and <1% Crystallized silicon dioxide)
<b>Bulgaria - Occupational Exposure Limits</b>	
OEL TWA	10 mg/m <sup>3</sup>
<b>Croatia - Occupational Exposure Limits</b>	
GVI (OEL TWA)	10 mg/m <sup>3</sup> (total dust, inhalable particles) 4 mg/m <sup>3</sup> (respirable dust)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA)	1.25 mg/m <sup>3</sup> (respirable fraction (dust)) 10 mg/m <sup>3</sup> (inhalable fraction (dust))
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA	5 mg/m <sup>3</sup> (respirable dust)
OEL STEL	15 mg/m <sup>3</sup> (calculated-respirable dust)
<b>Portugal - Occupational Exposure Limits</b>	
OEL TWA	5 mg/m <sup>3</sup> (inhalable fraction)
<b>Slovakia - Occupational Exposure Limits</b>	
NPHV (OEL TWA)	4 mg/m <sup>3</sup> (inhalable fraction) 1.5 mg/m <sup>3</sup> (respirable fraction)
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA)	10 mg/m <sup>3</sup> (this value is for the particulate matter that is free from Asbestos and contains less than 1% of crystalline Silica)
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (OEL TWA)	10 mg/m <sup>3</sup> inhalable aerosol 4 mg/m <sup>3</sup> respirable aerosol
WEL STEL (OEL STEL)	30 mg/m <sup>3</sup> (calculated-inhalable dust) 12 mg/m <sup>3</sup> (calculated-respirable dust)
<b>Switzerland - Occupational Exposure Limits</b>	
MAK (OEL TWA)	3 mg/m <sup>3</sup> (respirable dust) 3 mg/m <sup>3</sup> (total dust limit values-respirable fraction) 10 mg/m <sup>3</sup> (total dust limit values-inhalable fraction)
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Barium sulfate
ACGIH® TLV® TWA	5 mg/m <sup>3</sup> (I - Inhalable particulate matter, E - The value is for particulate matter containing no asbestos and < 1 % crystalline silica)
Remark (ACGIH)	TLV® Basis: Pneumoconiosis
Regulatory reference	ACGIH 2024

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<b>Benzene, ethenyl-, polymer with (1-methylethenyl)benzene (9011-11-4)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Remark (ACGIH)	OELs not established
<b>Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Remark (ACGIH)	OELs not established
<b>Decanedioic acid, methyl 1,2,2,6,6-pentamethyl-4-piperidiny ester (82919-37-7)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Remark (ACGIH)	OELs not established
<b>Styrene-1,3-Butadiene polymer, hydrogenated (66070-58-4)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Remark (ACGIH)	OELs not established
<b>Xylene (1330-20-7)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOEL TWA	221 mg/m <sup>3</sup>
	50 ppm
IOEL STEL	442 mg/m <sup>3</sup>
	100 ppm
<b>Austria - Occupational Exposure Limits</b>	
MAK (OEL TWA)	221 mg/m <sup>3</sup>
	50 ppm
MAK (OEL STEL)	442
	100 ppm
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	221
	50 ppm
OEL STEL	442 mg/m <sup>3</sup>
	100 ppm
<b>Denmark - Occupational Exposure Limits</b>	
OEL TWA	109 mg/m <sup>3</sup>
	25 ppm
OEL STEL	218 mg/m <sup>3</sup>
	50 ppm
<b>Finland - Occupational Exposure Limits</b>	
HTP (OEL TWA)	220 mg/m <sup>3</sup>
	50 ppm
HTP (OEL STEL)	440 mg/m <sup>3</sup>
	100 ppm

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<b>Xylene (1330-20-7)</b>	
<b>France - Occupational Exposure Limits</b>	
VME (OEL TWA)	221 mg/m <sup>3</sup> [VME] (restrictive limit)
	50 ppm [VME] (restrictive limit)
VLE (OEL C/STEL)	442 mg/m <sup>3</sup> [VLCT] (restrictive limit)
	100 ppm [VLCT] (restrictive limit)
OEL chemical category	risk of cutaneous absorption
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA)	440 mg/m <sup>3</sup>
	100 ppm
AGW (OEL C)	880 mg/m <sup>3</sup>
AGW (OEL C) [ppm]	200 ppm
<b>Hungary - Occupational Exposure Limits</b>	
AK (OEL TWA)	221 mg/m <sup>3</sup>
CK (OEL STEL)	442 mg/m <sup>3</sup>
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA	221 mg/m <sup>3</sup>
	50 ppm
OEL STEL	442 mg/m <sup>3</sup>
	100 ppm
<b>Italy - Occupational Exposure Limits</b>	
OEL TWA	50 ppm TWA (pure)
OEL STEL	100 ppm STEL (pure)
OEL chemical category	skin - potential for cutaneous absorption
<b>Latvia - Occupational Exposure Limits</b>	
OEL TWA	221 mg/m <sup>3</sup>
	50 ppm
OEL STEL	442 mg/m <sup>3</sup>
	100 ppm
<b>Poland - Occupational Exposure Limits</b>	
NDS (OEL TWA)	100 mg/m <sup>3</sup>
<b>Romania - Occupational Exposure Limits</b>	
OEL TWA	221 mg/m <sup>3</sup>
	50 ppm
OEL STEL	422 mg/m <sup>3</sup>
	100 ppm
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA)	221 mg/m <sup>3</sup>
	50 ppm
VLA-EC (OEL STEL)	442 mg/m <sup>3</sup>

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Xylene (1330-20-7)	
	100 ppm
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	221 mg/m <sup>3</sup>
	50 ppm
KGV (OEL STEL)	442 mg/m <sup>3</sup>
	100 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	221 mg/m <sup>3</sup>
	50 ppm
WEL STEL (OEL STEL)	442 mg/m <sup>3</sup>
	100 ppm
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	435 mg/m <sup>3</sup>
	100 ppm
KZGW (OEL STEL)	870 mg/m <sup>3</sup>
	200 ppm
USA - ACGIH - Occupational Exposure Limits	
Local name	Xylene, mixed isomers (Dimethylbenzene)
ACGIH® TLV® TWA	221 mg/m <sup>3</sup>
	50 ppm
ACGIH® TLV® STEL	442 mg/m <sup>3</sup>
	100 ppm
Remark (ACGIH)	TLV® Basis: URT & eye irr; hematologic eff; ototoxicity (for mixtures containing p-xylene); CNS impair. Notations: OTO (for mixtures containing p-xylene); A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2024
USA - ACGIH - Biological Exposure Indices	
Local name	Xylenes (technical or commercial grade)
BEI	0.3 g/g creatinine Parameter: Methylhippuric acids (The determinants refer to the total of all isomers of methylhippuric acids) - Medium: urine - Sampling time: End of shift
Remark	Commercial or technical grade xylenes consist of mixtures of isomers and significant amounts of ethyl benzene as indicated under "Properties." Because ethyl benzene is known to reduce the metabolism of xylenes to methylhippuric acids, the BEI applies to technical or commercial grades of xylenes only. The determinants refer to the total of all isomers of methylhippuric acids
Regulatory reference	ACGIH 2024
Cumene (98-82-8)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	100 mg/m <sup>3</sup>
	20 ppm
IOEL STEL	250 mg/m <sup>3</sup>

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<b>Cumene (98-82-8)</b>	
	50 ppm
<b>Austria - Occupational Exposure Limits</b>	
MAK (OEL TWA)	100 mg/m <sup>3</sup> 20 ppm
MAK (OEL STEL)	250 mg/m <sup>3</sup> 50 ppm
OEL chemical category	Skin notation
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	100 mg/m <sup>3</sup> 20 ppm
OEL STEL	250 mg/m <sup>3</sup> 50 ppm
OEL chemical category	Skin, Skin notation
<b>Bulgaria - Occupational Exposure Limits</b>	
OEL TWA	50 mg/m <sup>3</sup> (exposure monitoring should take into account the relevant biological monitoring methods of the Scientific Committee on Occupational Exposure Limits (SCOEL) under Annex 2) 10 ppm (exposure monitoring should take into account the relevant biological monitoring methods of the Scientific Committee on Occupational Exposure Limits (SCOEL) under Annex 2)
OEL STEL	250 mg/m <sup>3</sup> (exposure monitoring should take into account the relevant biological monitoring methods of the Scientific Committee on Occupational Exposure Limits (SCOEL) under Annex 2) 50 ppm (exposure monitoring should take into account the relevant biological monitoring methods of the Scientific Committee on Occupational Exposure Limits (SCOEL) under Annex 2)
<b>Bulgaria - Biological limit values</b>	
BLV	7 mg/g creatinine Parameter: 2-Phenol-2 propanol - Medium: urine - Sampling time: up to two hours after the end of work shift (possible significant absorption through the skin)
<b>Croatia - Occupational Exposure Limits</b>	
GVI (OEL TWA)	50 mg/m <sup>3</sup> (during the monitoring of exposure the relevant value of biological monitoring shall be taken into account as suggested by the Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL) (Cumene)) 10 ppm (during the monitoring of exposure the relevant value of biological monitoring shall be taken into account as suggested by the Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL) (Cumene))
KGVI (OEL STEL)	250 mg/m <sup>3</sup> (during the monitoring of exposure the relevant value of biological monitoring shall be taken into account as suggested by the Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL) (Cumene)) 50 ppm
OEL chemical category	Skin notation during the monitoring of exposure the relevant value of biological monitoring shall be taken into account as suggested by the Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL)
<b>Cyprus - Occupational Exposure Limits</b>	
OEL TWA	50 mg/m <sup>3</sup> (inhalable fraction)

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<b>Cumene (98-82-8)</b>	
	10 ppm (inhalable fraction)
OEL STEL	250 mg/m <sup>3</sup> (inhalable fraction)
	50 ppm (inhalable fraction)
OEL chemical category	Skin-potential for cutaneous absorption
<b>Czech Republic - Occupational Exposure Limits</b>	
PEL (OEL TWA)	100 mg/m <sup>3</sup>
OEL chemical category	Potential for cutaneous absorption
<b>Denmark - Occupational Exposure Limits</b>	
OEL TWA	100 mg/m <sup>3</sup>
	20 ppm
OEL STEL	200 mg/m <sup>3</sup>
	40 ppm
OEL chemical category	Potential for cutaneous absorption
<b>Estonia - Occupational Exposure Limits</b>	
OEL TWA	50 mg/m <sup>3</sup>
	10 ppm
OEL STEL	250 mg/m <sup>3</sup>
	50 ppm
OEL chemical category	Skin notation
<b>Finland - Occupational Exposure Limits</b>	
HTP (OEL TWA)	100 mg/m <sup>3</sup>
	20 ppm
HTP (OEL STEL)	250 mg/m <sup>3</sup>
	50 ppm
OEL chemical category	Potential for cutaneous absorption
<b>France - Occupational Exposure Limits</b>	
VME (OEL TWA)	100 mg/m <sup>3</sup>
	20 ppm
VLE (OEL C/STEL)	250 mg/m <sup>3</sup>
	50 ppm
OEL chemical category	Carcinogen category 1B, risk of cutaneous absorption
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA)	50 mg/m <sup>3</sup>
	10 ppm
AGW (OEL C)	200 mg/m <sup>3</sup>
AGW (OEL C) [ppm]	40 ppm
Chemical category	Skin notation

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<b>Cumene (98-82-8)</b>	
<b>Germany - Biological limit values (TRGS 903)</b>	
Biological limit value	10 mg/g creatinine Parameter: 2-Phenyl-2-propanol (after hydrolysis) - Medium: urine - Sampling time: end of shift
<b>Gibraltar - Occupational Exposure Limits</b>	
OEL TWA	100 mg/m <sup>3</sup>
	20 ppm
OEL STEL	250 mg/m <sup>3</sup>
	50 ppm
OEL chemical category	Skin notation
<b>Greece - Occupational Exposure Limits</b>	
OEL TWA	50 mg/m <sup>3</sup> (during the monitoring of the exposure, the relevant biological monitoring values recommended by the Scientific Committee on Occupational Exposure Limit Values (SCOEL) should be taken under consideration)
	10 ppm (during the monitoring of the exposure, the relevant biological monitoring values recommended by the Scientific Committee on Occupational Exposure Limit Values (SCOEL) should be taken under consideration)
OEL STEL	250 mg/m <sup>3</sup> (during the monitoring of the exposure, the relevant biological monitoring values recommended by the Scientific Committee on Occupational Exposure Limit Values (SCOEL) should be taken under consideration)
	50 ppm (during the monitoring of the exposure, the relevant biological monitoring values recommended by the Scientific Committee on Occupational Exposure Limit Values (SCOEL) should be taken under consideration)
OEL chemical category	skin - potential for cutaneous absorption during the monitoring of the exposure, the relevant biological monitoring values recommended by the Scientific Committee on Occupational Exposure Limit Values (SCOEL) should be taken under consideration
<b>Hungary - Occupational Exposure Limits</b>	
AK (OEL TWA)	100 mg/m <sup>3</sup>
CK (OEL STEL)	250 mg/m <sup>3</sup>
OEL chemical category	Potential for cutaneous absorption
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA	100 mg/m <sup>3</sup>
	20 ppm
OEL STEL	250 mg/m <sup>3</sup>
	50 ppm
OEL chemical category	Potential for cutaneous absorption
<b>Italy - Occupational Exposure Limits</b>	
OEL TWA	100 mg/m <sup>3</sup>
	20 ppm
OEL STEL	250 mg/m <sup>3</sup>
	50 ppm
OEL chemical category	skin - potential for cutaneous absorption
<b>Latvia - Occupational Exposure Limits</b>	
OEL TWA	100 mg/m <sup>3</sup>

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<b>Cumene (98-82-8)</b>	
	20 ppm
OEL STEL	250 mg/m <sup>3</sup>
	50 ppm
OEL chemical category	skin - potential for cutaneous exposure
<b>Latvia - Biological Exposure Indices</b>	
BEI	7 µg/g creatinine Parameter: Cumene - Medium: urine - Sampling time: no later than two hours after the end of the shift
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (OEL TWA)	50 mg/m <sup>3</sup> (in addition to the indicative occupational exposure limit values, biological monitoring values must be taken into account when monitoring exposure)
	10 ppm (in addition to the indicative occupational exposure limit values, biological monitoring values must be taken into account when monitoring exposure)
TPRV (OEL STEL)	170 mg/m <sup>3</sup> (in addition to the indicative occupational exposure limit values, biological monitoring values must be taken into account when monitoring exposure)
	35 ppm (in addition to the indicative occupational exposure limit values, biological monitoring values must be taken into account when monitoring exposure)
OEL chemical category	Skin notation
<b>Luxembourg - Occupational Exposure Limits</b>	
OEL TWA	50 mg/m <sup>3</sup>
	10 ppm
OEL STEL	250 mg/m <sup>3</sup>
	50 ppm
OEL chemical category	Possibility of significant uptake through the skin
<b>Malta - Occupational Exposure Limits</b>	
OEL TWA	50 mg/m <sup>3</sup>
	10 ppm
OEL STEL	250 mg/m <sup>3</sup>
	50 ppm
OEL chemical category	Possibility of significant uptake through the skin
<b>Netherlands - Occupational Exposure Limits</b>	
TGG-8u (OEL TWA)	100 mg/m <sup>3</sup>
	10 ppm
TGG-15min (OEL STEL)	250 mg/m <sup>3</sup>
	50 ppm
MAC chemical category	Skin notation
<b>Poland - Occupational Exposure Limits</b>	
NDS (OEL TWA)	100 mg/m <sup>3</sup>
NDSCh (OEL STEL)	250 mg/m <sup>3</sup>
<b>Portugal - Occupational Exposure Limits</b>	
OEL TWA	50 mg/m <sup>3</sup> (indicative limit value)
	10 ppm (indicative limit value)

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<b>Cumene (98-82-8)</b>	
OEL STEL	250 mg/m <sup>3</sup> (indicative limit value)
	50 ppm (indicative limit value)
OEL chemical category	skin - potential for cutaneous exposure indicative limit value
<b>Romania - Occupational Exposure Limits</b>	
OEL TWA	100 mg/m <sup>3</sup>
	20 ppm
OEL STEL	250 mg/m <sup>3</sup>
	50 ppm
OEL chemical category	Skin notation
<b>Slovakia - Occupational Exposure Limits</b>	
NPHV (OEL TWA)	500 mg/m <sup>3</sup>
	20 ppm
NPHV (OEL C)	250 mg/m <sup>3</sup>
OEL chemical category	Potential for cutaneous absorption
<b>Slovakia - Biological limit values</b>	
BLV	10.6 mg/l Parameter: 2-Phenylpropane - Medium: urine - Sampling time: end of exposure or work shift
<b>Slovenia - Occupational Exposure Limits</b>	
OEL TWA	50 mg/m <sup>3</sup>
	10 ppm
OEL STEL	250 mg/m <sup>3</sup>
	50 ppm
OEL chemical category	Potential for cutaneous absorption
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA)	100 mg/m <sup>3</sup>
	20 ppm
VLA-EC (OEL STEL)	250 mg/m <sup>3</sup>
	50 ppm
OEL chemical category	C1B, skin - potential for cutaneous absorption
<b>Spain - Biological limit values</b>	
BLV	7 mg/g creatinine Parameter: 2-Phenyl-2-propanol - Medium: urine - Sampling time: end of shift (with hydrolysis)
<b>Sweden - Occupational Exposure Limits</b>	
NGV (OEL TWA)	120 mg/m <sup>3</sup>
	25 ppm
KGV (OEL STEL)	250 mg/m <sup>3</sup>
	50 ppm
OEL chemical category	Skin notation
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (OEL TWA)	125 mg/m <sup>3</sup>

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<b>Cumene (98-82-8)</b>	
	25 ppm
WEL STEL (OEL STEL)	375 mg/m <sup>3</sup>
	75 ppm
WEL chemical category	Potential for cutaneous absorption
<b>Norway - Occupational Exposure Limits</b>	
Grenseverdi (OEL TWA)	50 mg/m <sup>3</sup>
	10 ppm
Korttidsverdi (OEL STEL)	250 mg/m <sup>3</sup> (value from the regulation)
	50 ppm (value from the regulation)
OEL chemical category	Skin notation, Carcinogen
<b>Switzerland - Occupational Exposure Limits</b>	
MAK (OEL TWA)	100 mg/m <sup>3</sup>
	20 ppm
KZGW (OEL STEL)	400 mg/m <sup>3</sup>
	80 ppm
OEL chemical category	Skin notation, Category C2 carcinogen
<b>Switzerland - BAT</b>	
BAT	20 mg/g creatinine Parameter: 2-Phenyl-2-propanol after hydrolysis - Medium: urine - Sampling time: end of shift Parameter: 2-Phenyl-2-propanol after hydrolysis - Medium: urine - Sampling time: end of shift
<b>Turkey - Occupational Exposure Limits</b>	
OEL TWA	100 mg/m <sup>3</sup>
	20 ppm
OEL STEL	250 mg/m <sup>3</sup>
	50 ppm
OEL chemical category	Skin notation
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Cumene
ACGIH® TLV® TWA	50 ppm
Remark (ACGIH)	TLV® Basis: URT adenoma; neurological eff. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
Regulatory reference	ACGIH 2024
<b>Methyl ethyl ketone (78-93-3)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOEL TWA	600 mg/m <sup>3</sup>
	200 ppm
IOEL STEL	900 mg/m <sup>3</sup>
	300 ppm

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<b>Methyl ethyl ketone (78-93-3)</b>	
<b>Austria - Occupational Exposure Limits</b>	
MAK (OEL TWA)	295 mg/m <sup>3</sup>
	100 ppm
MAK (OEL STEL)	590 mg/m <sup>3</sup>
	200 ppm
OEL chemical category	Skin notation
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	600 mg/m <sup>3</sup>
	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
	300 ppm
<b>Bulgaria - Occupational Exposure Limits</b>	
OEL TWA	590 mg/m <sup>3</sup>
OEL STEL	885 mg/m <sup>3</sup>
<b>Croatia - Occupational Exposure Limits</b>	
GVI (OEL TWA)	600 mg/m <sup>3</sup>
	200 ppm
KGVI (OEL STEL)	900 mg/m <sup>3</sup>
	300 ppm
<b>Croatia - Biological limit values</b>	
BLV	2.6 mg/g creatinine Parameter: Ethyl methyl ketone - Medium: urine - Sampling time: at the end of the work shift (calculated on the average Creatinine value of 1.2 g/L urine)
<b>Cyprus - Occupational Exposure Limits</b>	
OEL TWA	600 mg/m <sup>3</sup>
	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
	300 ppm
<b>Czech Republic - Occupational Exposure Limits</b>	
PEL (OEL TWA)	600 mg/m <sup>3</sup>
<b>Denmark - Occupational Exposure Limits</b>	
OEL TWA	145 mg/m <sup>3</sup>
	50 ppm
OEL STEL	290 mg/m <sup>3</sup>
	100 ppm
OEL chemical category	Potential for cutaneous absorption
<b>Estonia - Occupational Exposure Limits</b>	
OEL TWA	600 mg/m <sup>3</sup>
	200 ppm
OEL STEL	900 mg/m <sup>3</sup>

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<b>Methyl ethyl ketone (78-93-3)</b>	
	300 ppm
<b>Finland - Occupational Exposure Limits</b>	
HTP (OEL TWA)	60 mg/m <sup>3</sup>
	20 ppm
HTP (OEL STEL)	300 mg/m <sup>3</sup>
	100 ppm
OEL chemical category	Potential for cutaneous absorption
<b>France - Occupational Exposure Limits</b>	
VME (OEL TWA)	600 mg/m <sup>3</sup>
	200 ppm
VLE (OEL C/STEL)	900 mg/m <sup>3</sup>
	300 ppm
OEL chemical category	risk of cutaneous absorption
<b>France - Biological limit values</b>	
BLV	Parameter: Methyl ethyl ketone - Medium: urine - Sampling time: end of shift (per the Authority, the values for this substance must be decided and/or determined on a case by case basis. Guidance for the calculation of and interpretation of values is provided in the source)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA)	600 mg/m <sup>3</sup>
	200 ppm
AGW (OEL C)	600 mg/m <sup>3</sup>
AGW (OEL C) [ppm]	200 ppm
Chemical category	Skin notation
<b>Germany - Biological limit values (TRGS 903)</b>	
Biological limit value	2 mg/l Parameter: 2-Butanone - Medium: urine - Sampling time: end of shift
<b>Gibraltar - Occupational Exposure Limits</b>	
OEL TWA	600 mg/m <sup>3</sup>
	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
	300 ppm
<b>Greece - Occupational Exposure Limits</b>	
OEL TWA	600 mg/m <sup>3</sup>
	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
	300 ppm
<b>Hungary - Occupational Exposure Limits</b>	
AK (OEL TWA)	600 mg/m <sup>3</sup>
CK (OEL STEL)	900 mg/m <sup>3</sup>
OEL chemical category	Potential for cutaneous absorption

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Methyl ethyl ketone (78-93-3)	
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA	600 mg/m <sup>3</sup>
	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
	300 ppm
OEL chemical category	Potential for cutaneous absorption
<b>Italy - Occupational Exposure Limits</b>	
OEL TWA	600 mg/m <sup>3</sup>
	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
	300 ppm
<b>Latvia - Occupational Exposure Limits</b>	
OEL TWA	200 mg/m <sup>3</sup>
	67 ppm
OEL STEL	900 mg/m <sup>3</sup>
	300 ppm
<b>Luxembourg - Occupational Exposure Limits</b>	
OEL TWA	600 mg/m <sup>3</sup>
	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
	300 ppm
<b>Malta - Occupational Exposure Limits</b>	
OEL TWA	600 mg/m <sup>3</sup>
	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
	300 ppm
<b>Netherlands - Occupational Exposure Limits</b>	
TGG-8u (OEL TWA)	590 mg/m <sup>3</sup>
	197 ppm
TGG-15min (OEL STEL)	900 mg/m <sup>3</sup>
	300 ppm
MAC chemical category	Skin notation
<b>Poland - Occupational Exposure Limits</b>	
NDS (OEL TWA)	590
NDSCh (OEL STEL)	900
<b>Portugal - Occupational Exposure Limits</b>	
OEL TWA	600 mg/m <sup>3</sup> (indicative limit value)
	200 ppm (indicative limit value)
OEL STEL	900 mg/m <sup>3</sup> (indicative limit value)

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Methyl ethyl ketone (78-93-3)	
	300 ppm (indicative limit value)
Romania - Occupational Exposure Limits	
OEL TWA	600 mg/m <sup>3</sup>
	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
	300 ppm
Romania - Biological limit values	
BLV	2 mg/l Parameter: Methylethylketone - Medium: urine - Sampling time: end of shift
Slovakia - Occupational Exposure Limits	
NPHV (OEL TWA)	600 mg/m <sup>3</sup>
	200 ppm
NPHV (OEL C)	900 mg/m <sup>3</sup>
Slovenia - Occupational Exposure Limits	
OEL TWA	600 mg/m <sup>3</sup>
	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
	300 ppm
OEL chemical category	Potential for cutaneous absorption
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	600 mg/m <sup>3</sup>
	200 ppm
VLA-EC (OEL STEL)	900 mg/m <sup>3</sup>
	300 ppm
Spain - Biological limit values	
BLV	2 mg/l Parameter: Methyl ethyl ketone - Medium: urine - Sampling time: end of shift
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	150 mg/m <sup>3</sup>
	50 ppm
KGV (OEL STEL)	900 mg/m <sup>3</sup>
	600 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	600 mg/m <sup>3</sup>
	200 ppm
WEL STEL (OEL STEL)	899 mg/m <sup>3</sup>
	300 ppm
WEL chemical category	Potential for cutaneous absorption
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA)	220 mg/m <sup>3</sup>
	75 ppm

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<b>Methyl ethyl ketone (78-93-3)</b>	
Korttidsverdi (OEL STEL)	275 mg/m <sup>3</sup> (value calculated)
	112.5 ppm (value calculated)
<b>Switzerland - Occupational Exposure Limits</b>	
MAK (OEL TWA)	590 mg/m <sup>3</sup>
	200 ppm
KZGW (OEL STEL)	590 mg/m <sup>3</sup>
	200 ppm
OEL chemical category	Skin notation
<b>Switzerland - BAT</b>	
BAT	2 mg/l Parameter: 2-Butanone - Medium: urine - Sampling time: end of shift, before subsequent shift or 16 hour 27.7 µmol/l Parameter: 2-Butanone - Medium: urine - Sampling time: end of shift, before subsequent shift or 16 hour
<b>Turkey - Occupational Exposure Limits</b>	
OEL TWA	600 mg/m <sup>3</sup>
	200 ppm
OEL STEL	900 mg/m <sup>3</sup>
	300 ppm
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Methyl ethyl ketone (MEK)
ACGIH® TLV® TWA	200 ppm
ACGIH® TLV® STEL	300 ppm
Remark (ACGIH)	TLV® Basis: Embryo/fetal dam; URT irr; headache; dizziness. Notations: Skin; BEI
Regulatory reference	ACGIH 2024
<b>USA - ACGIH - Biological Exposure Indices</b>	
Local name	Methyl ethyl ketone
BEI	2 mg/l Parameter: MEK - Medium: urine - Sampling time: end of shift (nonspecific)
Regulatory reference	ACGIH 2024
<b>Silica, amorphous (7631-86-9)</b>	
<b>Austria - Occupational Exposure Limits</b>	
MAK (OEL TWA)	4 mg/m <sup>3</sup> (also Silica manufactured through wet process-inhalable fraction)
<b>Czech Republic - Occupational Exposure Limits</b>	
PEL (OEL TWA)	0.1 mg/m <sup>3</sup> (respirable fraction)
	4 mg/m <sup>3</sup>
<b>Estonia - Occupational Exposure Limits</b>	
OEL TWA	2 mg/m <sup>3</sup> (amorphous-respirable dust)
<b>Finland - Occupational Exposure Limits</b>	
HTP (OEL TWA)	5 mg/m <sup>3</sup> (Silicon dioxide, amorphous)

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<b>Silica, amorphous (7631-86-9)</b>	
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA)	4 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-inhalable fraction)
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA	6 mg/m <sup>3</sup> (total inhalable dust) 2.4 mg/m <sup>3</sup> (respirable dust)
OEL STEL	18 mg/m <sup>3</sup> (calculated-respirable dust) 7.2 mg/m <sup>3</sup> (calculated-respirable dust)
<b>Latvia - Occupational Exposure Limits</b>	
OEL TWA	1 mg/m <sup>3</sup>
<b>Slovenia - Occupational Exposure Limits</b>	
OEL TWA	4 mg/m <sup>3</sup> (inhalable fraction, gel)
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (OEL TWA)	6 mg/m <sup>3</sup> (inhalable dust) 2.4 mg/m <sup>3</sup> (respirable dust)
WEL STEL (OEL STEL)	18 mg/m <sup>3</sup> (calculated-inhalable dust) 7.2 mg/m <sup>3</sup> (calculated-respirable dust)
<b>Norway - Occupational Exposure Limits</b>	
Grønseverdi (OEL TWA)	1.5 mg/m <sup>3</sup> (respirable dust)
Korttidsverdi (OEL STEL)	3 mg/m <sup>3</sup> (value calculated-respirable dust)
<b>Switzerland - Occupational Exposure Limits</b>	
MAK (OEL TWA)	4 mg/m <sup>3</sup> (including Silica, amorphous-inhalable dust)
<b>Propylene glycol monomethyl ether acetate (108-65-6)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOEL TWA	275 mg/m <sup>3</sup>
	50 ppm
IOEL STEL	550 mg/m <sup>3</sup>
	100 ppm
Remark	Possibility of significant uptake through the skin
<b>Austria - Occupational Exposure Limits</b>	
MAK (OEL TWA)	275 mg/m <sup>3</sup>
	50 ppm
MAK (OEL STEL)	550 mg/m <sup>3</sup>
	100 ppm
OEL chemical category	Skin notation
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	275 mg/m <sup>3</sup>
	50 ppm
OEL STEL	550 mg/m <sup>3</sup>
	100 ppm

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Propylene glycol monomethyl ether acetate (108-65-6)	
OEL chemical category	Skin, Skin notation
<b>Bulgaria - Occupational Exposure Limits</b>	
OEL TWA	275 mg/m <sup>3</sup>
	50 ppm
OEL STEL	550 mg/m <sup>3</sup>
	100 ppm
<b>Croatia - Occupational Exposure Limits</b>	
GVI (OEL TWA)	275 mg/m <sup>3</sup>
	50 ppm
KGV (OEL STEL)	550 mg/m <sup>3</sup>
	100 ppm
OEL chemical category	Skin notation
<b>Cyprus - Occupational Exposure Limits</b>	
OEL TWA	275 mg/m <sup>3</sup>
	50 ppm
OEL STEL	550 mg/m <sup>3</sup>
	100 ppm
OEL chemical category	Skin-potential for cutaneous absorption
<b>Czech Republic - Occupational Exposure Limits</b>	
PEL (OEL TWA)	270 mg/m <sup>3</sup>
OEL chemical category	Potential for cutaneous absorption
<b>Denmark - Occupational Exposure Limits</b>	
OEL TWA	275 mg/m <sup>3</sup>
	50 ppm
OEL STEL	550 mg/m <sup>3</sup>
	100 ppm
OEL chemical category	Potential for cutaneous absorption
<b>Estonia - Occupational Exposure Limits</b>	
OEL TWA	275 mg/m <sup>3</sup>
	50 ppm
OEL STEL	550 mg/m <sup>3</sup>
	100 ppm
OEL chemical category	Skin notation, Sensitizer
<b>Finland - Occupational Exposure Limits</b>	
HTP (OEL TWA)	270 mg/m <sup>3</sup>
	50 ppm
HTP (OEL STEL)	550 mg/m <sup>3</sup>
	100 ppm
OEL chemical category	Potential for cutaneous absorption

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Propylene glycol monomethyl ether acetate (108-65-6)	
<b>France - Occupational Exposure Limits</b>	
VME (OEL TWA)	275 mg/m <sup>3</sup> (restrictive limit)
	50 ppm (restrictive limit)
VLE (OEL C/STEL)	550 mg/m <sup>3</sup> (restrictive limit)
	100 ppm (restrictive limit)
OEL chemical category	risk of cutaneous absorption
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA)	270 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
	50 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
<b>Gibraltar - Occupational Exposure Limits</b>	
OEL TWA	275 mg/m <sup>3</sup>
	50 ppm
OEL STEL	550 mg/m <sup>3</sup>
	100 ppm
OEL chemical category	Skin notation
<b>Greece - Occupational Exposure Limits</b>	
OEL TWA	275 mg/m <sup>3</sup>
	50 ppm
OEL STEL	550 mg/m <sup>3</sup>
	100 ppm
OEL chemical category	skin - potential for cutaneous absorption
<b>Hungary - Occupational Exposure Limits</b>	
AK (OEL TWA)	275 mg/m <sup>3</sup>
CK (OEL STEL)	550 mg/m <sup>3</sup>
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA	275 mg/m <sup>3</sup>
	50 ppm
OEL STEL	550 mg/m <sup>3</sup>
	100 ppm
OEL chemical category	Potential for cutaneous absorption
<b>Italy - Occupational Exposure Limits</b>	
OEL TWA	275 mg/m <sup>3</sup>
	50 ppm
OEL STEL	550 mg/m <sup>3</sup>
	100 ppm
OEL chemical category	skin - potential for cutaneous absorption
<b>Latvia - Occupational Exposure Limits</b>	
OEL TWA	275 mg/m <sup>3</sup>

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<b>Propylene glycol monomethyl ether acetate (108-65-6)</b>	
	50 ppm
OEL chemical category	skin - potential for cutaneous exposure
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (OEL TWA)	250 mg/m <sup>3</sup>
	50 ppm
TPRV (OEL STEL)	400 mg/m <sup>3</sup>
	75 ppm
OEL chemical category	Skin notation
<b>Luxembourg - Occupational Exposure Limits</b>	
OEL TWA	275 mg/m <sup>3</sup>
	50 ppm
OEL STEL	550 mg/m <sup>3</sup>
	100 ppm
OEL chemical category	Possibility of significant uptake through the skin
<b>Malta - Occupational Exposure Limits</b>	
OEL TWA	275 mg/m <sup>3</sup>
	50 ppm
OEL STEL	550 mg/m <sup>3</sup>
	100 ppm
OEL chemical category	Possibility of significant uptake through the skin
<b>Netherlands - Occupational Exposure Limits</b>	
TGG-8u (OEL TWA)	550 mg/m <sup>3</sup>
	100 ppm
<b>Poland - Occupational Exposure Limits</b>	
NDS (OEL TWA)	260 mg/m <sup>3</sup>
NDSch (OEL STEL)	520 mg/m <sup>3</sup>
<b>Portugal - Occupational Exposure Limits</b>	
OEL TWA	275 mg/m <sup>3</sup> (indicative limit value)
	50 ppm (indicative limit value)
OEL STEL	550 mg/m <sup>3</sup> (indicative limit value)
	100 ppm (indicative limit value)
OEL chemical category	skin - potential for cutaneous exposure indicative limit value
<b>Romania - Occupational Exposure Limits</b>	
OEL TWA	275 mg/m <sup>3</sup>
	50 ppm
OEL STEL	550 mg/m <sup>3</sup>
	100 ppm
OEL chemical category	Skin notation

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<b>Propylene glycol monomethyl ether acetate (108-65-6)</b>	
<b>Slovakia - Occupational Exposure Limits</b>	
NPHV (OEL TWA)	275 mg/m <sup>3</sup>
	50 ppm
NPHV (OEL C)	550 mg/m <sup>3</sup>
OEL chemical category	Potential for cutaneous absorption
<b>Slovenia - Occupational Exposure Limits</b>	
OEL TWA	275 mg/m <sup>3</sup>
	50 ppm
OEL STEL	550 mg/m <sup>3</sup>
	100 ppm
OEL chemical category	Potential for cutaneous absorption
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA)	275 mg/m <sup>3</sup> (indicative limit value)
	50 ppm (indicative limit value)
VLA-EC (OEL STEL)	550 mg/m <sup>3</sup>
	100 ppm
OEL chemical category	skin - potential for cutaneous absorption
<b>Sweden - Occupational Exposure Limits</b>	
NGV (OEL TWA)	275 mg/m <sup>3</sup>
	50 ppm
KGV (OEL STEL)	550 mg/m <sup>3</sup>
	100 ppm
OEL chemical category	Skin notation
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (OEL TWA)	274 mg/m <sup>3</sup>
	50 ppm
WEL STEL (OEL STEL)	548 mg/m <sup>3</sup>
	100 ppm
OEL chemical category	Potential for cutaneous absorption
<b>Norway - Occupational Exposure Limits</b>	
Grenseverdi (OEL TWA)	270 mg/m <sup>3</sup>
	50 ppm
Korttidsverdi (OEL STEL)	337.5 mg/m <sup>3</sup> (value calculated)
	75 ppm (value calculated)
OEL chemical category	Skin notation
<b>Switzerland - Occupational Exposure Limits</b>	
MAK (OEL TWA)	275 mg/m <sup>3</sup>
	50 ppm
KZGW (OEL STEL)	275 mg/m <sup>3</sup>

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Propylene glycol monomethyl ether acetate (108-65-6)	
	50 ppm
Turkey - Occupational Exposure Limits	
OEL TWA	275 mg/m <sup>3</sup> 50 ppm
OEL STEL	550 mg/m <sup>3</sup> 100 ppm
OEL chemical category	Skin notation
USA - ACGIH - Occupational Exposure Limits	
Remark (ACGIH)	OELs not established
Solvent naphtha, petroleum, medium aliphatic (64742-88-7)	
USA - ACGIH - Occupational Exposure Limits	
Remark (ACGIH)	OELs not established
Sulfuric acid (7664-93-9)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	0.05 mg/m <sup>3</sup> thoracic fraction
Austria - Occupational Exposure Limits	
MAK (OEL TWA)	0.1 mg/m <sup>3</sup> (corresponds to 0.05 mg/m <sup>3</sup> Thoracic-inhalable fraction)
MAK (OEL STEL)	0.2 mg/m <sup>3</sup> (inhalable fraction)
Belgium - Occupational Exposure Limits	
OEL TWA	0.2 mg/m <sup>3</sup> (Mist)
OEL chemical category	Carcinogen
Bulgaria - Occupational Exposure Limits	
OEL TWA	0.05 mg/m <sup>3</sup> (when choosing a suitable method for monitoring exposure should take into account potential constraints and interactions that may occur in the presence of other sulfur compounds-respirable aerosol)
Croatia - Occupational Exposure Limits	
GVI (OEL TWA)	0.05 mg/m <sup>3</sup> (when selecting the appropriate exposure monitoring method the potential limitations and disturbances that may occur in the presence of other sulfur compounds should be taken into account-fog, thoracic fraction)
Cyprus - Occupational Exposure Limits	
OEL TWA	0.05 mg/m <sup>3</sup> (vapor)
Czech Republic - Occupational Exposure Limits	
PEL (OEL TWA)	1 mg/m <sup>3</sup> 0.05 mg/m <sup>3</sup> (concentrated-mist)
Denmark - Occupational Exposure Limits	
OEL TWA	0.05 mg/m <sup>3</sup> (thoracic fraction-mist)
OEL STEL	0.1 mg/m <sup>3</sup> (thoracic fraction-mist)
Estonia - Occupational Exposure Limits	
OEL TWA	0.05 mg/m <sup>3</sup> (mist-particles that reach the upper respiratory tract)

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<b>Sulfuric acid (7664-93-9)</b>	
<b>Finland - Occupational Exposure Limits</b>	
HTP (OEL TWA)	0.05 mg/m <sup>3</sup> (thoracic fraction)
HTP (OEL STEL)	0.1 mg/m <sup>3</sup> (thoracic fraction)
<b>France - Occupational Exposure Limits</b>	
VME (OEL TWA)	0.05 mg/m <sup>3</sup> thoracic fraction
VLE (OEL C/STEL)	3 mg/m <sup>3</sup>
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA)	0.1 mg/m <sup>3</sup> inhalable aerosol
AGW (OEL C)	0.1 mg/m <sup>3</sup> inhalable aerosol
<b>Gibraltar - Occupational Exposure Limits</b>	
OEL TWA	0.05 mg/m <sup>3</sup> (when selecting an appropriate exposure monitoring method, account should be taken of potential limitations and interferences that may arise in the presence of other sulphur compounds-thoracic fraction)
<b>Greece - Occupational Exposure Limits</b>	
OEL TWA	0.05 mg/m <sup>3</sup> (mist)
<b>Hungary - Occupational Exposure Limits</b>	
AK (OEL TWA)	0.05 mg/m <sup>3</sup>
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA	0.05 ppm
OEL STEL	0.15 ppm (calculated)
<b>Italy - Occupational Exposure Limits</b>	
OEL TWA	0.05 mg/m <sup>3</sup> (when choosing a suitable method for monitoring exposure should take into account potential constraints and interactions that may occur in the presence of other sulfur compounds, respirable fraction-thoracic fraction, mist)
<b>Latvia - Occupational Exposure Limits</b>	
OEL TWA	0.05 mg/m <sup>3</sup> (by choosing an appropriate exposure monitoring method there should be taken into account possible restrictions and the impact which could be caused by the presence of other Sulfur components-fog, which is defined as the thoracic fraction)
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (OEL TWA)	0.05 mg/m <sup>3</sup> (vapor)
TPRV (OEL STEL)	3 mg/m <sup>3</sup> (fog-vapor)
<b>Luxembourg - Occupational Exposure Limits</b>	
OEL TWA	0.05 mg/m <sup>3</sup> (thoracic fraction)
<b>Malta - Occupational Exposure Limits</b>	
OEL TWA	0.05 mg/m <sup>3</sup> (mist)
<b>Netherlands - Occupational Exposure Limits</b>	
TGG-8u (OEL TWA)	0.05 mg/m <sup>3</sup> (mist, thoracic fraction)
<b>Poland - Occupational Exposure Limits</b>	
NDS (OEL TWA)	1 mg/m <sup>3</sup>
NDSch (OEL STEL)	3 mg/m <sup>3</sup>

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<b>Sulfuric acid (7664-93-9)</b>	
<b>Portugal - Occupational Exposure Limits</b>	
OEL TWA	0.2 mg/m <sup>3</sup> (mist-thoracic fraction)
OEL chemical category	A2 - Suspected Human Carcinogen present in strong inorganic acid mixtures
<b>Romania - Occupational Exposure Limits</b>	
OEL TWA	0.05 mg/m <sup>3</sup> (when selecting an appropriate exposure monitoring method there should be taken in account the potential limitations and interferences that may arise because of other Sulfur compounds presence-thoracic fraction)
<b>Slovakia - Occupational Exposure Limits</b>	
NPHV (OEL TWA)	0.05 mg/m <sup>3</sup>
<b>Slovenia - Occupational Exposure Limits</b>	
OEL TWA	0.05 mg/m <sup>3</sup> (inhalable fraction, fog)
OEL STEL	0.05 mg/m <sup>3</sup> (inhalable fraction, fog)
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA)	1 mg/m <sup>3</sup>
VLA-EC (OEL STEL)	3 mg/m <sup>3</sup>
<b>Sweden - Occupational Exposure Limits</b>	
NGV (OEL TWA)	0.1 mg/m <sup>3</sup> (inhalable fraction)
KGV (OEL STEL)	0.2 mg/m <sup>3</sup> (inhalable fraction)
OEL chemical category	Carcinogen aerosols
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (OEL TWA)	0.05 mg/m <sup>3</sup> (mist)
WEL STEL (OEL STEL)	0.15 mg/m <sup>3</sup> (calculated-mist)
Remark	OELs not established
<b>Norway - Occupational Exposure Limits</b>	
Grenseverdi (OEL TWA)	0.1 mg/m <sup>3</sup> (thoracic fraction, aerosol)
Korttidsverdi (OEL STEL)	0.3 mg/m <sup>3</sup> (value calculated-thoracic fraction, aerosol)
OEL chemical category	Carcinogen aerosol
<b>Switzerland - Occupational Exposure Limits</b>	
MAK (OEL TWA)	0.1 mg/m <sup>3</sup> (no elevated carcinogenic risk by keeping the TWA-value-inhalable dust)
KZGW (OEL STEL)	0.2 mg/m <sup>3</sup> (inhalable dust)
OEL chemical category	Category C1A carcinogen carcinogenic with threshold value
<b>Turkey - Occupational Exposure Limits</b>	
OEL TWA	0.05 mg/m <sup>3</sup> (steam)
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Sulfuric acid
ACGIH® TLV® TWA	0.2 mg/m <sup>3</sup> thoracic fraction
Remark (ACGIH)	TLV® Basis: Pulm func. Notations: A2 (Suspected Human Carcinogen. Classification refers to sulfuric acid contained in strong inorganic acid mists)
ACGIH chemical category	Suspected Human Carcinogen contained in strong inorganic acid mists
Regulatory reference	ACGIH 2023

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Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched, phosphates (68412-53-3)	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Remark (ACGIH)	OELs not established
<b>Polyethylene glycol branched nonylphenyl ether (68412-54-4)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Remark (ACGIH)	OELs not established
<b>2-Methoxypropyl-1-acetate (70657-70-4)</b>	
<b>Austria - Occupational Exposure Limits</b>	
MAK (OEL TWA)	110 mg/m <sup>3</sup>
	20 ppm
MAK (OEL STEL)	440 mg/m <sup>3</sup>
	80 ppm
OEL chemical category	Skin notation
<b>Czech Republic - Occupational Exposure Limits</b>	
PEL (OEL TWA)	270 mg/m <sup>3</sup>
OEL chemical category	Potential for cutaneous absorption
<b>Denmark - Occupational Exposure Limits</b>	
OEL TWA	110 mg/m <sup>3</sup>
	20 ppm
OEL STEL	220 mg/m <sup>3</sup>
	40 ppm
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA)	28 mg/m <sup>3</sup>
	5 ppm
AGW (OEL C)	224 mg/m <sup>3</sup>
AGW (OEL C) [ppm]	40 ppm
Chemical category	Skin notation
<b>Poland - Occupational Exposure Limits</b>	
NDS (OEL TWA)	100 mg/m <sup>3</sup>
NDSch (OEL STEL)	200 mg/m <sup>3</sup>
<b>Slovakia - Occupational Exposure Limits</b>	
NPHV (OEL TWA)	110 mg/m <sup>3</sup>
	20 ppm
NPHV (OEL C)	220 mg/m <sup>3</sup>
OEL chemical category	Potential for cutaneous absorption
<b>Slovenia - Occupational Exposure Limits</b>	
OEL TWA	28 mg/m <sup>3</sup>
	5 ppm
OEL STEL	224 mg/m <sup>3</sup>

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<b>2-Methoxypropyl-1-acetate (70657-70-4)</b>	
	40 ppm
OEL chemical category	Category 1B, Potential for cutaneous absorption
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA)	28 mg/m <sup>3</sup> 5 ppm
VLA-EC (OEL STEL)	220 mg/m <sup>3</sup> 40 ppm
OEL chemical category	TR1B
<b>Norway - Occupational Exposure Limits</b>	
Grønseverdi (OEL TWA)	110 mg/m <sup>3</sup> 20 ppm
Korttidsverdi (OEL STEL)	137.5 mg/m <sup>3</sup> (value calculated) 30 ppm (value calculated)
OEL chemical category	Skin notation, Potential reproductive hazard
<b>Switzerland - Occupational Exposure Limits</b>	
MAK (OEL TWA)	28 mg/m <sup>3</sup> 5 ppm
KZGW (OEL STEL)	224 mg/m <sup>3</sup> 40 ppm
OEL chemical category	Skin notation, Category 1B reproductive toxin
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Remark (ACGIH)	OELs not established
<b>Titanium dioxide (13463-67-7)</b>	
<b>Austria - Occupational Exposure Limits</b>	
MAK (OEL TWA)	5 mg/m <sup>3</sup> (alveolar dust, respirable fraction)
MAK (OEL STEL)	10 mg/m <sup>3</sup> (alveolar dust, respirable fraction)
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	10 mg/m <sup>3</sup>
<b>Bulgaria - Occupational Exposure Limits</b>	
OEL TWA	10 mg/m <sup>3</sup> (respirable dust)
<b>Croatia - Occupational Exposure Limits</b>	
GVI (OEL TWA)	10 mg/m <sup>3</sup> (total dust, inhalable particles) 4 mg/m <sup>3</sup> (respirable dust)
<b>Denmark - Occupational Exposure Limits</b>	
OEL TWA	6 mg/m <sup>3</sup>
OEL STEL	12 mg/m <sup>3</sup>
<b>Estonia - Occupational Exposure Limits</b>	
OEL TWA	5 mg/m <sup>3</sup>

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Titanium dioxide (13463-67-7)	
<b>France - Occupational Exposure Limits</b>	
VME (OEL TWA)	11 mg/m <sup>3</sup>
OEL chemical category	Carcinogen category 2
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA)	0.3 mg/m <sup>3</sup>
AGW (OEL C)	2.4 mg/m <sup>3</sup>
<b>Greece - Occupational Exposure Limits</b>	
OEL TWA	10 mg/m <sup>3</sup> (inhalable fraction) 5 mg/m <sup>3</sup> (respirable fraction)
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA	10 mg/m <sup>3</sup>
OEL STEL	30 mg/m <sup>3</sup> (calculated-respirable dust) 12 mg/m <sup>3</sup> (calculated)
<b>Latvia - Occupational Exposure Limits</b>	
OEL TWA	10 mg/m <sup>3</sup>
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (OEL TWA)	5 mg/m <sup>3</sup>
<b>Poland - Occupational Exposure Limits</b>	
NDS (OEL TWA)	10 mg/m <sup>3</sup>
NDSP (OEL C)	30 mg/m <sup>3</sup>
<b>Portugal - Occupational Exposure Limits</b>	
OEL TWA	10 mg/m <sup>3</sup>
OEL chemical category	A4 - Not Classifiable as a Human Carcinogen
<b>Romania - Occupational Exposure Limits</b>	
OEL TWA	10 mg/m <sup>3</sup>
OEL STEL	15 mg/m <sup>3</sup>
<b>Slovakia - Occupational Exposure Limits</b>	
NPHV (OEL TWA)	5 mg/m <sup>3</sup>
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA)	10 mg/m <sup>3</sup>
<b>Sweden - Occupational Exposure Limits</b>	
NGV (OEL TWA)	5 mg/m <sup>3</sup>
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (OEL TWA)	10 mg/m <sup>3</sup> inhalable aerosol 4 mg/m <sup>3</sup> respirable aerosol
WEL STEL (OEL STEL)	30 mg/m <sup>3</sup> (calculated-total inhalable) 12 mg/m <sup>3</sup> (calculated-respirable)
<b>Norway - Occupational Exposure Limits</b>	
Grenseverdi (OEL TWA)	5 mg/m <sup>3</sup>
Korttidsverdi (OEL STEL)	10 mg/m <sup>3</sup> (value calculated)

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Titanium dioxide (13463-67-7)	
<b>Switzerland - Occupational Exposure Limits</b>	
MAK (OEL TWA)	3 mg/m <sup>3</sup> (respirable dust) 3 mg/m <sup>3</sup> (total dust limit values) 10 mg/m <sup>3</sup> (total dust limit values)
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Titanium dioxide
ACGIH® TLV® TWA	10 mg/m <sup>3</sup>
Remark (ACGIH)	TLV® Basis: LRT irr; pneumoconiosis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
Regulatory reference	ACGIH 2024
<b>Aluminum hydroxide (Al(OH)3) (21645-51-2)</b>	
<b>Austria - Occupational Exposure Limits</b>	
MAK (OEL TWA)	5 mg/m <sup>3</sup> (respirable fraction)
MAK (OEL STEL)	10 mg/m <sup>3</sup> (respirable fraction)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA)	1.25 mg/m <sup>3</sup> (respirable fraction (dust)) 10 mg/m <sup>3</sup> (inhalable fraction (dust))
<b>Latvia - Occupational Exposure Limits</b>	
OEL TWA	6 mg/m <sup>3</sup>
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (OEL TWA)	6 mg/m <sup>3</sup>
OEL chemical category	Fibrogenic substance
<b>Poland - Occupational Exposure Limits</b>	
NDS (OEL TWA)	2.5 mg/m <sup>3</sup> (inhalable fraction) 1.2 mg/m <sup>3</sup> (respirable fraction)
<b>Slovakia - Occupational Exposure Limits</b>	
NPHV (OEL TWA)	1.5 mg/m <sup>3</sup> (respirable fraction, dust) 4 mg/m <sup>3</sup> (inhalable dust)
<b>Switzerland - Occupational Exposure Limits</b>	
MAK (OEL TWA)	3 mg/m <sup>3</sup> (respirable dust) 3 mg/m <sup>3</sup> (total dust limit values-respirable fraction) 10 mg/m <sup>3</sup> (total dust limit values-inhalable fraction)
<b>Switzerland - BAT</b>	
BAT	50 µg/g creatinine Parameter: Aluminum - Medium: urine - Sampling time: after several shifts (for long-term exposures) Parameter: Aluminum - Medium: urine - Sampling time: after several shifts (for long-term exposures)
<b>1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)- (77-99-6)</b>	
<b>Lithuania - Occupational Exposure Limits</b>	
NRV (OEL C)	5 ppm

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### 1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)- (77-99-6)

#### Sweden - Occupational Exposure Limits

NGV (OEL TWA)	5 mg/m <sup>3</sup>
KGV (OEL STEL)	5 mg/m <sup>3</sup> Limit Value - Eight Hours

#### USA - ACGIH - Occupational Exposure Limits

Remark (ACGIH)	OELs not established
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#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Gloves. Protective goggles. Protective clothing. Insufficient ventilation: wear respiratory protection.

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Wear eye protection, including chemical splash goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles [EN 166]

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure. [EN 14605:2005 and EN 13034:2005]

##### Hand protection:

Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Change contaminated gloves immediately. Suitable gloves for this specific application can be recommended by the glove supplier. Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified and selected according to regional or national standards. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate PVC, or vinyl. Suitable gloves should be recommended by the glove supplier.

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

Wear a NIOSH-approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions. In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment with gas filter (type A2). Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection. Use European Standard EN 529:2005 (or other equivalent national standard) -approved dust/particulate respirator

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### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

No additional information available

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Blurple.
Odour	: characteristic. Solvent.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 15 °C (59 °F) (VM&P Naphtha value)
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

### 10.3. Possibility of hazardous reactions

None known.

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### 10.4. Conditions to avoid

Ignition sources. Heat. Open flame. Sparks.

### 10.5. Incompatible materials

Strong acids. Strong oxidizing agents. Strong bases. Amines. Alkali metals. Halogens.

### 10.6. Hazardous decomposition products

Carbon oxides (CO, CO<sub>2</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### Distillates, petroleum, light distillate hydrotreating process, low-boiling (68410-97-9)

LD50 oral rat	5170 mg/kg (Source: CHEMVIEW)
LD50 dermal rabbit	> 3000 mg/kg (Source: ECHA_API)
LC50 Inhalation - Rat [ppm]	> 12408 ppm/4h

#### Naphtha, petroleum, hydrotreated light (64742-49-0)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	2800 – 3100 mg/kg bodyweight Animal: rat
LD50 dermal rabbit	> 3160 mg/kg
LC50 Inhalation - Rat	> 23.3 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
LC50 Inhalation - Rat [ppm]	73680 ppm/4h

#### Solvent naphtha, petroleum, light aliphatic (64742-89-8)

LD50 oral rat	5000 mg/kg mouse; (Source: IUCLID)
LD50 dermal rabbit	3000 mg/kg (Source: IUCLID)

#### Octane (111-65-9)

LD50 oral rat	> 5000 mg/kg Source: ECHA
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	118 g/m <sup>3</sup> 4 h
LC50 Inhalation - Rat (Vapours)	> 24.88 mg/l Source: ECHA

#### n-Heptane (142-82-5)

LD50 oral rat	5000 mg/kg
LD50 dermal rat	2800 – 3100 mg/kg bodyweight Animal: rat, Remarks on results: other:
LD50 dermal rabbit	3000 mg/kg
LC50 Inhalation - Rat	103 g/m <sup>3</sup> 4h

#### Ethylbenzene (100-41-4)

LD50 oral rat	3500 mg/kg
LD50 dermal rabbit	15400 mg/kg

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<b>Ethylbenzene (100-41-4)</b>	
LC50 Inhalation - Rat	17.2 mg/l/4h
LC50 Inhalation - Rat [ppm]	4000 ppm Source: ECHA, Harmonized classification of EU CLP
<b>Cyclohexane (110-82-7)</b>	
LD50 oral rat	12705 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	13.9 mg/l/4h
<b>Hexane (110-54-3)</b>	
LD50 oral rat	25 g/kg (Source: NLM_CIP)
LD50 dermal rat	> 2000 mg/kg Source: ECHA
LD50 dermal rabbit	3000 mg/kg
LC50 Inhalation - Rat [ppm]	48000 ppm/4h
LC50 Inhalation - Rat (Vapours)	259.354 mg/l Source: ECHA
<b>Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)</b>	
LD50 oral rat	2615 mg/kg
<b>Xylene (1330-20-7)</b>	
LD50 oral rat	3523 mg/kg
LD50 dermal rabbit	12126 mg/kg bodyweight Animal: rabbit, Animal sex: male, Remarks on results: other:
LC50 Inhalation - Rat	27124 mg/m <sup>3</sup> (air)
LC50 Inhalation - Rat [ppm]	5922 ppm
<b>Cumene (98-82-8)</b>	
LD50 oral rat	2910 mg/kg Source: HSDB
LD50 oral	2700 mg/kg bodyweight
LD50 dermal rabbit	12300 µl/kg
LC50 Inhalation - Rat [ppm]	> 3577 ppm 6 h
<b>Methyl ethyl ketone (78-93-3)</b>	
LD50 oral rat	2483 mg/kg (Source: JAPAN_GHS)
LD50 oral	4000 mg/kg bodyweight
LD50 dermal rabbit	5000 mg/kg (Source: JAPAN_GHS)
LC50 Inhalation - Rat [ppm]	11700 ppm/4h
LC50 Inhalation - Rat (Vapours)	32 mg/l Source: RTECS
<b>Propylene glycol monomethyl ether acetate (108-65-6)</b>	
LD50 oral rat	8532 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:
LD50 dermal rabbit	> 5000 mg/kg
LC50 Inhalation - Rat	16000 mg/m <sup>3</sup> (Exposure time: 6 h Source: AU_WES)
<b>Solvent naphtha, petroleum, medium aliphatic (64742-88-7)</b>	
LD50 oral rat	> 5000 mg/kg

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### Solvent naphtha, petroleum, medium aliphatic (64742-88-7)

LD50 dermal rabbit 3000 mg/kg

LC50 Inhalation - Rat > 5.28 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.  
Serious eye damage/irritation : Causes serious eye irritation.  
Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Suspected of causing cancer.

### Ethylbenzene (100-41-4)

IARC group 2B - Possibly carcinogenic to humans

### Cumene (98-82-8)

IARC group 2B - Possibly carcinogenic to humans

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

### Solvent naphtha, petroleum, medium aliphatic (64742-88-7)

NOAEL (animal/male, F0/P) ≥ 3000 mg/kg bodyweight Animal: rat, Animal sex: male

STOT-single exposure : May cause drowsiness or dizziness.

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

### Naphtha, petroleum, hydrotreated light (64742-49-0)

LOAEC (inhalation, rat, vapour, 90 days) 4.71 mg/l air Animal: rat, Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study)

NOAEC (inhalation, rat, vapour, 90 days) 2355 mg/l air Animal: rat, Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study)

### Octane (111-65-9)

NOAEC (inhalation, rat, vapour, 90 days) 24.3 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)

### n-Heptane (142-82-5)

LOAEC (inhalation, rat, vapour, 90 days) 16.6 mg/l air Animal: rat, Animal sex: male

NOAEC (inhalation, rat, vapour, 90 days) 3.3 mg/l air Animal: rat, Animal sex: male

### Ethylbenzene (100-41-4)

NOAEL (oral, rat, 90 days) 75 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)

STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.

### Hexane (110-54-3)

STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.

### Xylene (1330-20-7)

LOAEL (oral, rat, 90 days) 150 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EPA OPP 82-1 (90-Day Oral Toxicity)

### Propylene glycol monomethyl ether acetate (108-65-6)

NOAEL (dermal, rat/rabbit, 90 days) > 1000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)

### Solvent naphtha, petroleum, medium aliphatic (64742-88-7)

NOAEL (oral, rat, 90 days) 750 mg/kg bodyweight Animal: rat, Animal sex: female

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### Solvent naphtha, petroleum, medium aliphatic (64742-88-7)

NOAEC (inhalation, rat, vapour, 90 days)	≥ 0.024 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)
STOT-repeated exposure	Causes damage to organs (central nervous system) through prolonged or repeated exposure.

Aspiration hazard : May be fatal if swallowed and enters airways.

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

Component	
Polyethylene glycol branched nonylphenyl ether (68412-54-4)	The substance is identified for having endocrine disrupting properties but there is no additional data available (see section 2.3)

#### 11.2.2. Other information

The mixture contains Methyl ethyl ketone (CAS#78-93-3), which is identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605, at a concentration equal to or greater than 0,1 %

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified  
Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

### Distillates, petroleum, light distillate hydrotreating process, low-boiling (68410-97-9)

LC50 - Fish [1]	0.854 mg/l Source: Ecological Structure Activity Relationships
EC50 96h - Algae [1]	1.323 mg/l Source: Ecological Structure Activity Relationships

### Naphtha, petroleum, hydrotreated light (64742-49-0)

LC50 - Fish [1]	8.41 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static, closed] Source: ECHA)
LC50 - Other aquatic organisms [1]	2.6 mg/l Source: IUCLID
EC50 72h - Algae [1]	32 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
LOEC (chronic)	0.32 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0.17 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

### Solvent naphtha, petroleum, light aliphatic (64742-89-8)

EC50 72h - Algae [1]	4700 mg/l (Species: Pseudokirchneriella subcapitata)
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### Octane (111-65-9)

LC50 - Fish [1]	0.885 mg/l
EC50 - Crustacea [1]	0.38 mg/l (Exposure time: 48 h - Species: water flea)
EC50 72h - Algae [1]	0.9 mg/l Source: ECHA
LOEC (chronic)	0.32 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0.17 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

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<b>n-Heptane (142-82-5)</b>	
LC50 - Fish [1]	5.738 mg/l Source: QSAR
EC50 - Crustacea [1]	1.5 mg/l
LOEC (chronic)	0.32 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0.17 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
<b>Toluene (108-88-3)</b>	
LC50 - Fish [1]	15.22 – 19.05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
LC50 - Fish [2]	12.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
EC50 - Crustacea [1]	5.46 – 9.83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 - Crustacea [2]	11.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h - Algae [1]	12.5 mg/l (Species: Pseudokirchneriella subcapitata [static])
EC50 96h - Algae [1]	> 433 mg/l (Species: Pseudokirchneriella subcapitata)
LOEC (chronic)	2.76 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
NOEC (chronic)	0.74 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
NOEC chronic fish	1.39 mg/l Test organisms (species): Oncorhynchus kisutch Duration: '40 d'
<b>Benzene (71-43-2)</b>	
LC50 - Fish [1]	5.3 mg/l Source: ECHA
EC50 - Crustacea [1]	10 mg/l Source: OECD ECHA
EC50 72h - Algae [1]	29 mg/l Source: NITE
EC50 72h - Algae [2]	100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC chronic fish	0.8 mg/l Test organisms (species): Pimephales promelas Duration: '32 d'
<b>Ethylbenzene (100-41-4)</b>	
LC50 - Fish [1]	5.1 mg/l Source: ECHA
LC50 - Fish [2]	4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static] Source: EPA)
EC50 - Crustacea [1]	1.8 – 2.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h - Algae [1]	4.6 mg/l (Species: Pseudokirchneriella subcapitata)
EC50 72h - Algae [2]	2.6 – 11.3 mg/l (Species: Pseudokirchneriella subcapitata [static])
EC50 96h - Algae [1]	2.6 mg/l Source: ECHA
EC50 96h - Algae [2]	1.7 – 7.6 mg/l (Species: Pseudokirchneriella subcapitata [static])
LOEC (chronic)	1.7 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
NOEC (chronic)	0.96 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
<b>Naphthalene (91-20-3)</b>	
LC50 - Fish [1]	5.74 – 6.44 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
LC50 - Fish [2]	1.6 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through] Source: EPA)
EC50 - Crustacea [1]	2.16 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 - Crustacea [2]	1.96 mg/l (Exposure time: 48 h - Species: Daphnia magna [Flow through])

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<b>Naphthalene (91-20-3)</b>	
NOEC (chronic)	0.59 mg/l Test organisms (species): Daphnia pulex Duration: '125 d'
<b>Cyclohexane (110-82-7)</b>	
LC50 - Fish [1]	4.53 mg/l Test organisms (species): Pimephales promelas
LC50 - Fish [2]	23.03 – 42.07 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
EC50 - Crustacea [1]	0.9 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	3.4 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	9.317 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
ErC50 algae	9.317 mg/l Source: ECHA
<b>Hexane (110-54-3)</b>	
LC50 - Fish [1]	2.1 – 2.98 mg/l 96 Hr LC50 Pimephales promelas [flow-through]
<b>Barium sulfate (7727-43-7)</b>	
EC50 - Crustacea [1]	32 mg/l Source: ECOTOX
EC50 72h - Algae [1]	> 1.15 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	> 30.07 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	1890.263 mg/l Source: ECOSAR
<b>Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (41556-26-7)</b>	
LC50 - Fish [1]	0.97 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 96h - Algae [1]	0.017 mg/l Source: Ecological Structure Activity Relationships
<b>Decanedioic acid, methyl 1,2,2,6,6-pentamethyl-4-piperidiny ester (82919-37-7)</b>	
LC50 - Fish [1]	0.996 mg/l
EC50 96h - Algae [1]	0.615 mg/l Source: ECOSAR
<b>Xylene (1330-20-7)</b>	
LC50 - Fish [1]	2.6 mg/l Source: ECHA
EC50 - Crustacea [1]	> 3.4 mg/l Test organisms (species): Ceriodaphnia dubia
LOEC (chronic)	3.16 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	> 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '56 d'
<b>Cumene (98-82-8)</b>	
LC50 - Fish [1]	4.7 mg/l Source: ECHA
LC50 - Fish [2]	4.8 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	2.14 mg/l Source: ECHA
EC50 - Crustacea [2]	7.9 – 14.1 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
EC50 72h - Algae [1]	2.01 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

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<b>Cumene (98-82-8)</b>	
EC50 72h - Algae [2]	1.29 mg/l Test organisms (species): <i>Desmodesmus subspicatus</i> (previous name: <i>Scenedesmus subspicatus</i> )
ErC50 algae	2.01 mg/l Source: ECHA
NOEC (chronic)	0.35 mg/l Test organisms (species): <i>Daphnia magna</i> Duration: '21 d'
NOEC chronic fish	0.38 mg/l Test organisms (species): other: Duration: '28 d'
<b>Methyl ethyl ketone (78-93-3)</b>	
LC50 - Fish [1]	3130 – 3320 mg/l (Exposure time: 96 h - Species: <i>Pimephales promelas</i> [flow-through] Source: EPA)
EC50 - Crustacea [1]	> 520 mg/l (Exposure time: 48 h - Species: <i>Daphnia magna</i> )
EC50 - Crustacea [2]	5091 mg/l (Exposure time: 48 h - Species: <i>Daphnia magna</i> )
EC50 72h - Algae [1]	1972 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i> )
EC50 96h - Algae [1]	2029 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i> )
<b>Silica, amorphous (7631-86-9)</b>	
LC50 - Fish [1]	5000 mg/l (Exposure time: 96 h - Species: <i>Brachydanio rerio</i> [static] Source: IUCLID)
EC50 - Crustacea [1]	7600 mg/l (Exposure time: 48 h - Species: <i>Ceriodaphnia dubia</i> )
EC50 72h - Algae [1]	440 mg/l (Species: <i>Pseudokirchneriella subcapitata</i> )
LOEC (chronic)	149.2 mg/l Test organisms (species): <i>Daphnia magna</i> Duration: '21 d'
<b>Propylene glycol monomethyl ether acetate (108-65-6)</b>	
LC50 - Fish [1]	161 mg/l (Exposure time: 96 h - Species: <i>Pimephales promelas</i> [static] Source: IUCLID)
EC50 - Crustacea [1]	> 500 mg/l (Exposure time: 48 h - Species: <i>Daphnia magna</i> )
EC50 72h - Algae [1]	≥ 1000 mg/l Source: SIDS
NOEC (chronic)	≥ 100 mg/l Test organisms (species): <i>Daphnia magna</i> Duration: '21 d'
NOEC chronic fish	47.5 mg/l Test organisms (species): <i>Oryzias latipes</i> Duration: '14 d'
<b>Solvent naphtha, petroleum, medium aliphatic (64742-88-7)</b>	
LC50 - Fish [1]	800 mg/l (Exposure time: 96 h - Species: <i>Pimephales promelas</i> [static] Source: IUCLID)
EC50 - Crustacea [1]	> 100 mg/l (Exposure time: 48 h - Species: <i>Daphnia magna</i> )
EC50 96h - Algae [1]	450 mg/l (Species: <i>Pseudokirchneriella subcapitata</i> )
<b>Sulfuric acid (7664-93-9)</b>	
LC50 - Fish [1]	16 – 28 mg/l Source: ECHA
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): <i>Daphnia magna</i>
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): <i>Desmodesmus subspicatus</i> (previous name: <i>Scenedesmus subspicatus</i> )
NOEC (chronic)	0.15 mg/l Test organisms (species): other: <i>Tanytarsus dissimilis</i>
NOEC chronic fish	0.31 mg/l Test organisms (species): <i>Salvelinus fontinalis</i>
<b>Polyethylene glycol branched nonylphenyl ether (68412-54-4)</b>	
LC50 - Fish [1]	0.323 mg/l (Exposure time: 96 h - Species: <i>Pimephales promelas</i> [flow-through] Source: ECHA)

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### Polyethylene glycol branched nonylphenyl ether (68412-54-4)

EC50 72h - Algae [1]	> 3 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC (chronic)	0.1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	0.006 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '91 d'

### 2-Methoxypropyl-1-acetate (70657-70-4)

LC50 - Fish [1]	123.852 mg/l Source: Ecological Structure Activity Relationships
EC50 96h - Algae [1]	9.337 mg/l Source: Ecological Structure Activity Relationships

### Titanium dioxide (13463-67-7)

LC50 - Fish [1]	> 100 mg/l
EC50 - Other aquatic organisms [1]	> 100 mg/l Test organisms (species):
EC50 72h - Algae [1]	> 50 mg/l Source: ECHA
LOEC (chronic)	5 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

### Aluminum hydroxide (Al(OH)<sub>3</sub>) (21645-51-2)

LC50 - Fish [1]	> 50 mg/l Source: ECHA
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### 1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)- (77-99-6)

EC50 - Crustacea [1]	13000 mg/l (Exposure time: 48 h - Species: Daphnia species)
EC50 - Crustacea [2]	10330 – 16360 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

## 12.2. Persistence and degradability

Persistence and degradability Not established.

## 12.3. Bioaccumulative potential

Bioaccumulative potential No information available

## 12.4. Mobility in soil

Mobility in soil No information available

## 12.5. Results of PBT and vPvB assessment

No additional information available

## 12.6. Endocrine disrupting properties

Polyethylene glycol branched nonylphenyl ether (68412-54-4) The substance is identified for having endocrine disrupting properties but there is no additional data available (see section 2.3)

## 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Do not discharge to public wastewater systems without permit of pollution control authorities.

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Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

#### 14.1. UN number or ID number

UN-No. (ADR) : UN 1139  
UN-No. (IMDG) : UN 1139  
UN-No. (IATA) : UN 1139  
UN-No. (ADN) : UN 1139  
UN-No. (RID) : UN 1139

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : COATING SOLUTION  
Proper Shipping Name (IMDG) : COATING SOLUTION  
Proper Shipping Name (IATA) : Coating solution  
Proper Shipping Name (ADN) : COATING SOLUTION  
Proper Shipping Name (RID) : COATING SOLUTION  
Transport document description (ADR) : UN 1139 COATING SOLUTION, 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS  
Transport document description (IMDG) : UN 1139 COATING SOLUTION, 3, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS  
Transport document description (IATA) : UN 1139 Coating solution, 3, II, ENVIRONMENTALLY HAZARDOUS  
Transport document description (ADN) : UN 1139 COATING SOLUTION, 3, II, ENVIRONMENTALLY HAZARDOUS  
Transport document description (RID) : UN 1139 COATING SOLUTION, 3, II, ENVIRONMENTALLY HAZARDOUS

#### 14.3. Transport hazard class(es)

##### ADR

Transport hazard class(es) (ADR) : 3  
Danger labels (ADR) : 3



##### IMDG

Transport hazard class(es) (IMDG) : 3  
Danger labels (IMDG) : 3



##### IATA

Transport hazard class(es) (IATA) : 3  
Danger labels (IATA) : 3



##### ADN

Transport hazard class(es) (ADN) : 3

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Danger labels (ADN) : 3



### RID

Transport hazard class(es) (RID) : 3

Danger labels (RID) : 3



### 14.4. Packing group

Packing group (ADR) : II

Packing group (IMDG) : II

Packing group (IATA) : II

Packing group (ADN) : II

Packing group (RID) : II

### 14.5. Environmental hazards

Dangerous for the environment : Yes

Marine pollutant : Yes

Other information : No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR) : F1

Special provisions (ADR) : 640C

Limited quantities (ADR) : 5I

Excepted quantities (ADR) : E2

Packing instructions (ADR) : P001

Mixed packing provisions (ADR) : MP19

Portable tank and bulk container instructions (ADR) : T4

Portable tank and bulk container special provisions (ADR) : TP1, TP8

Tank code (ADR) : L1.5BN

Vehicle for tank carriage : FL

Transport category (ADR) : 2

Special provisions for carriage - Operation (ADR) : S2, S20

Hazard identification number (Kemler No.) : 33

Orange plates : 

Tunnel restriction code (ADR) : D/E

EAC code : •3YE

#### Transport by sea (IMDG)

Limited quantities (IMDG) : 5 L

Excepted quantities (IMDG) : E2

Packing instructions (IMDG) : P001

IBC packing instructions (IMDG) : IBC02

Tank instructions (IMDG) : T4

Tank special provisions (IMDG) : TP1, TP8

EmS-No. (Fire) : F-E

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EmS-No. (Spillage) : S-E  
Stowage category (IMDG) : B  
Properties and observations (IMDG) : Miscibility with water depends upon the composition.

### Air transport (IATA)

PCA Excepted quantities (IATA) : E2  
PCA Limited quantities (IATA) : Y341  
PCA limited quantity max net quantity (IATA) : 1L  
PCA packing instructions (IATA) : 353  
PCA max net quantity (IATA) : 5L  
CAO packing instructions (IATA) : 364  
CAO max net quantity (IATA) : 60L  
Special provisions (IATA) : A3  
ERG code (IATA) : 3L

### Inland waterway transport

Classification code (ADN) : F1  
Special provisions (ADN) : 640C  
Limited quantities (ADN) : 5 L  
Excepted quantities (ADN) : E2  
Equipment required (ADN) : PP, EX, A  
Ventilation (ADN) : VE01  
Number of blue cones/lights (ADN) : 1

### Rail transport

Classification code (RID) : F1  
Special provisions (RID) : 640C  
Limited quantities (RID) : 5L  
Excepted quantities (RID) : E2  
Packing instructions (RID) : P001  
Mixed packing provisions (RID) : MP19  
Portable tank and bulk container instructions (RID) : T4  
Portable tank and bulk container special provisions (RID) : TP1, TP8  
Tank codes for RID tanks (RID) : L1.5BN  
Transport category (RID) : 2  
Colis express (express parcels) (RID) : CE7  
Hazard identification number (RID) : 33

## 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

Contains substance(s) listed on the REACH Candidate List < 0.1% or SCL: 4-Nonylphenol, branched and linear, ethoxylated (EC 500-209-1, CAS 68412-54-4).

Contains substance(s) listed on REACH Annex XIV: 4-Nonylphenol, branched and linear, ethoxylated (EC 500-209-1, CAS 68412-54-4)

Contains substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals): Benzene (71-43-2), Nonylphenol, branched, ethoxylated (68412-54-4)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### 15.1.2. National regulations

All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory or are exempt.

All chemical substances in this product are listed on the Canadian Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL) or are exempt.

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All chemical substances in this product are listed as "Active" in the EPA (Environmental Protection Agency) "TSCA Inventory Notification (Active-Inactive) Requirements Rule" ("the Final Rule") of Feb. 2019, as amended Feb. 2021, or are otherwise exempt or regulated by other agencies such as FDA or FIFRA

### Germany

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)  
Major Accidents Ordinance (12. BImSchV) : Is not subject to the Major Accidents Ordinance (12. BImSchV)

### Netherlands

SZW-lijst van kankerverwekkende stoffen : Distillates, petroleum, light distillate hydrotreating process, low-boiling, Naphtha, petroleum, hydrotreated light, Solvent naphtha, petroleum, light aliphatic, Benzene, Cumene, Solvent naphtha, petroleum, medium aliphatic, Sulfuric acid, 2-Methoxypropyl-1-acetate are listed

SZW-lijst van mutagene stoffen : Distillates, petroleum, light distillate hydrotreating process, low-boiling, Naphtha, petroleum, hydrotreated light, Solvent naphtha, petroleum, light aliphatic, Benzene, Solvent naphtha, petroleum, medium aliphatic, 2-Methoxypropyl-1-acetate are listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : Hexane is listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling : Toluene, Xylene, 2-Methoxypropyl-1-acetate are listed

### Denmark

Class for fire hazard : Class I-1

Store unit : 1 liter

Classification remarks : F <Flam. Liq. 2>; Emergency management guidelines for the storage of flammable liquids must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product  
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

### Switzerland

Storage class (LK) : LK 3 - Flammable liquids

## 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

### Full text of H- and EUH-statements

Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.

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### Full text of H- and EUH-statements

H360D	May damage the unborn child.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
EUH208	Contains Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate. May produce an allergic reaction.

### Abbreviations and acronyms

ACGIH	American Conference of Government Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
ED	Endocrine disrupting properties
EN	European Standard
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LD50	Median lethal dose
OEL	Occupational Exposure Limit
OSHA	Occupational Safety and Health Administration
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STOT	Specific target organ toxicity
TRGS	Technical Rules for Hazardous Substances
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class

#### Data sources

: Globally Harmonized System of Classification and Labelling of Chemicals (GHS).  
Classification for the USA in accordance with 29 CFR 1910.1200 (2012).  
Classification for the EU in accordance with Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.  
ECHA (European Chemicals Agency).

#### Training advice

: Normal use of this product shall imply use in accordance with the instructions for use and corresponding product packaging.

#### Indication of changes:

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Version 1.0: New SDS Created.

Other information : Author: WJS

SDS prepared for Plasti Dip International, Inc. by:  
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Classification according to Regulation (EC) No. 1272/2008	Classification procedure
Flammable liquids, Category 2	Test Data
Skin corrosion/irritation, Category 2	Specific concentration limit
Serious eye damage/eye irritation, Category 2	Specific concentration limit
Carcinogenicity, Category 2	Specific concentration limit
Reproductive toxicity, Category 2	Specific concentration limit
Specific target organ toxicity – Single exposure, Category 3, Narcosis	Specific concentration limit
Aspiration toxicity, Category 1	Specific concentration limit
Aquatic toxicity, Chronic, Category 2	Calculation Method

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.