

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## DLUX

Revision date: 24.03.2025

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

#### 1.1. Product identifier

DLUX

UFI: 6110-D0Y8-J00Y-0261

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

##### Use of the substance/mixture

Automotive care products

##### Uses advised against

Any non-intended use.

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

Company name: CarPro Global Limited.  
 Street: No. 10, Atocia Street  
 Place: M-2120 Hamrun. Malta  
 Telephone: +972 546 411 911  
 E-mail: safety@carpro.global  
 Internet: https://carpro.global/

#### Further Information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878)

### SECTION 2: Hazards identification

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

##### Regulation (EC) No 1272/2008

Flam. Liq. 3; H226  
 Skin Irrit. 2; H315  
 Eye Irrit. 2; H319  
 STOT RE 2; H373  
 Asp. Tox. 1; H304  
 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

##### Regulation (EC) No 1272/2008

##### Hazard components for labelling

Naphtha (petroleum), light alkylate; Low boiling point modified naphtha  
 Stoddard solvent; Low boiling point naphtha - unspecified  
 xylene  
 toluene

Signal word: Danger

##### Pictograms:



##### Hazard statements

H226 Flammable liquid and vapour.  
 H304 May be fatal if swallowed and enters airways.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H373 May cause damage to organs through prolonged or repeated exposure.

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H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
 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/container to local/regional/national/international regulations.

**2.3. Other hazards**

The mixture contains the following substances fulfilling the PBT criteria according to REACH, annex XIII: octamethylcyclotetrasiloxane.

The mixture contains the following substances fulfilling the vPvB criteria according to REACH, annex XIII: octamethylcyclotetrasiloxane.

Endocrine disrupting properties: octamethylcyclotetrasiloxane.

octamethylcyclotetrasiloxane (CAS-No.: 556-67-2):

This substance is classified as PBT. This substance is classified as vPvB.

The substance is included in one of the lists of endocrine disruptors (list III).

In use, may form flammable/explosive vapour-air mixture.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Relevant ingredients**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
69430-37-1	Aminoalkoxydimethylpolysiloxane			7 - < 10 %
	628-867-6			
	Flam. Liq. 2, Skin Irrit. 2, Eye Irrit. 2; H225 H315 H319			
64741-66-8	Naphtha (petroleum), light alkylate; Low boiling point modified naphtha			7 - < 10 %
	265-068-8	649-276-00-X		
	Asp. Tox. 1; H304			
8052-41-3	Stoddard solvent; Low boiling point naphtha - unspecified			7 - < 10 %
	232-489-3	649-345-00-4		
	Flam. Liq. 3, Skin Irrit. 2, STOT RE 1, Asp. Tox. 1, Aquatic Chronic 2; H226 H315 H372 H304 H411			
546-68-9	Titanium tetraisopropanolate			3 - < 5 %
	208-909-6		01-2119967389-17	
	Flam. Liq. 3, Eye Irrit. 2, STOT SE 3; H226 H319 H336			
1330-20-7	xylene			1 - < 3 %
	215-535-7	601-022-00-9	01-2119488216-32	
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1, Aquatic Chronic 3; H226 H332 H312 H315 H319 H335 H373 H304 H412			
108-88-3	toluene			1 - < 3 %

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	203-625-9	601-021-00-3	
	Flam. Liq. 2, Repr. 2, Skin Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1, Aquatic Chronic 3; H225 H361d H315 H336 H373 H304 H412		
94-96-2	2-ethylhexane-1,3-diol; octylene glycol; ethoexadiol		1 - < 3 %
	202-377-9	603-087-00-9	
	Eye Dam. 1; H318		
107-46-0	Hexamethyldisiloxane		1 - < 3 %
	203-492-7		
	Flam. Liq. 2, Aquatic Acute 1, Aquatic Chronic 2; H225 H400 H411		
67-56-1	methanol		0.5 - < 1 %
	200-659-6	603-001-00-X	
	Flam. Liq. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT SE 1; H225 H331 H311 H301 H370		
108-88-3	toluene		0.5 - < 1 %
	203-625-9	601-021-00-3	
	Flam. Liq. 2, Repr. 2, Skin Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H225 H361d H315 H336 H373 H304		
100-41-4	ethylbenzene		0.5 - < 1 %
	202-849-4	601-023-00-4	
	Flam. Liq. 2, Acute Tox. 4, STOT RE 2, Asp. Tox. 1, Aquatic Chronic 3; H225 H332 H373 H304 H412		
111-84-2	Nonane		0.1 - < 0.2 %
	203-913-4		
	Flam. Liq. 3, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 1; H226 H315 H336 H304 H410		
556-67-2	octamethylcyclotetrasiloxane		< 0.1 %
	209-136-7	014-018-00-1	
	Flam. Liq. 3, Repr. 2, Aquatic Chronic 1; H226 H361f H410		

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

#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
69430-37-1	628-867-6	Aminoalkoxydimethylpolysiloxane	7 - < 10 %
		oral: LD50 = >5000 mg/kg	
546-68-9	208-909-6	Titanium tetraisopropanolate	3 - < 5 %
		dermal: LD50 = 12870 mg/kg; oral: LD50 = 7500 mg/kg	
1330-20-7	215-535-7	xylene	1 - < 3 %
		inhalation: LC50 = 27124 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = (12126) mg/kg; oral: LD50 = 3523 mg/kg	
108-88-3	203-625-9	toluene	1 - < 3 %
		inhalation: LC50 = 28,1 mg/l (vapours); dermal: LD50 = >5000 mg/kg; oral: LD50 = >5000 mg/kg	
94-96-2	202-377-9	2-ethylhexane-1,3-diol; octylene glycol; ethoexadiol	1 - < 3 %
		oral: LD50 = >2000 mg/kg	
67-56-1	200-659-6	methanol	0.5 - < 1 %
		inhalation: ATE = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: ATE = 300 mg/kg; oral: ATE = 100 mg/kg STOT SE 1; H370: >= 10 - 100 STOT SE 2; H371: >= 3 - < 10	
108-88-3	203-625-9	toluene	0.5 - < 1 %
		inhalation: LC50 = (28,1) mg/l (vapours); dermal: LD50 = >5000 mg/kg; oral: LD50 = >5000 mg/kg	

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100-41-4	202-849-4	ethylbenzene	0.5 - < 1 %
		inhalation: LC50 = 17,2 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = >15000 mg/kg; oral: LD50 = 3500 mg/kg	
556-67-2	209-136-7	octamethylcyclotetrasiloxane	< 0.1 %
		dermal: LD50 = (> 2000) mg/kg; oral: LD50 = (> 4800) mg/kg Aquatic Chronic 1; H410: M=10	

### Labelling for contents according to Regulation (EC) No 648/2004

5 % - < 15 % aliphatic hydrocarbons, 5 % - < 15 % aromatic hydrocarbons.

### Further Information

Stoddard solvent; Low boiling point naphtha - unspecified (INDEX no.: 649-345-00-4); Naphtha (petroleum), light alkylate; Low boiling point modified naphtha (CAS 64741-66-8):

Note P: The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7).

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: octamethylcyclotetrasiloxane (CAS 556-67-2). Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

#### After contact with skin

Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment.

#### After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

#### After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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

See sections 2 and 11

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. Alcohol resistant foam. Water spray

#### Unsuitable extinguishing media

High power water jet.

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

In case of fire may be liberated: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>)  
Fluorhydric acid. metal oxides.

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

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### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.  
Co-ordinate fire-fighting measures to the fire surroundings.

## SECTION 6: Accidental release measures

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

#### General advice

Safe handling: see section 7

#### For non-emergency personnel

Wear personal protection equipment (refer to section 8).

#### For emergency responders

No special measures are necessary.

### 6.2. Environmental precautions

Discharge into the environment must be avoided.

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

#### For containment

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Treat the recovered material as prescribed in the section on waste disposal.

#### For cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations.

### 6.4. Reference to other sections

Handling and storage: Refer to section 7

Personal protection equipment: see section 8

Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Wear suitable protective clothing. See section 8.

#### Advice on protection against fire and explosion

Usual measures for fire prevention.

#### Advice on general occupational hygiene

Always close containers tightly after the removal of product. When using do not eat, drink or smoke. Wash hands before breaks and after work.

#### Further information on handling

General protection and hygiene measures: See section 8.

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

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

#### Hints on joint storage

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff.

#### Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

Recommended storage temperature: 20 °C

Protect against: frost. UV-radiation/sunlight. heat. Humidity

### 7.3. Specific end use(s)

See section 1.

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#### SECTION 8: Exposure controls/personal protection

##### 8.1. Control parameters

##### Occupational exposure limit values

CAS No	Name of agent	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
100-41-4	Ethylbenzene	100	442		TWA (8 h)	
		200	884		STEL (15 min)	
67-56-1	Methanol	200	260		TWA (8 h)	
108-88-3	Toluene	50	192		TWA (8 h)	
		100	384		STEL (15 min)	
1330-20-7	Xylene, mixed isomers, pure	50	221		TWA (8 h)	
		100	442		STEL (15 min)	

##### DNEL/DMEL values

CAS No	Name of agent			
DNEL type	Exposure route	Effect	Value	
546-68-9	Titanium tetraisopropanolate			
Worker DNEL, long-term	inhalation	systemic	500 mg/m <sup>3</sup>	
1330-20-7	xylene			
Worker DNEL, long-term	inhalation	systemic	221 mg/m <sup>3</sup>	
Worker DNEL, acute	inhalation	systemic	442 mg/m <sup>3</sup>	
Worker DNEL, long-term	inhalation	local	221 mg/m <sup>3</sup>	
Worker DNEL, acute	inhalation	local	442 mg/m <sup>3</sup>	
Worker DNEL, long-term	dermal	systemic	212 mg/kg bw/day	
Consumer DNEL, long-term	inhalation	systemic	65,3 mg/m <sup>3</sup>	
Consumer DNEL, acute	inhalation	systemic	260 mg/m <sup>3</sup>	
Consumer DNEL, long-term	inhalation	local	65,3 mg/m <sup>3</sup>	
Consumer DNEL, acute	inhalation	local	260 mg/m <sup>3</sup>	
Consumer DNEL, long-term	dermal	systemic	125 mg/kg bw/day	
Consumer DNEL, long-term	oral	systemic	5 mg/kg bw/day	

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**PNEC values**

CAS No	Name of agent		Value
Environmental compartment			
546-68-9	Titanium tetraisopropanolate		
Freshwater			0,59 mg/l
Freshwater (intermittent releases)			5,9 mg/l
Marine water			0,059 mg/l
Freshwater sediment			0,482 mg/kg
Marine sediment			0,048 mg/kg
Micro-organisms in sewage treatment plants (STP)			105 mg/l
Soil			0,112 mg/kg
1330-20-7	xylene		
Freshwater			0,044 mg/l
Freshwater (intermittent releases)			0,01 mg/l
Marine water			0,004 mg/l
Marine water (intermittent releases)			0,001 mg/l
Freshwater sediment			2,52 mg/kg
Marine sediment			0,252 mg/kg
Micro-organisms in sewage treatment plants (STP)			1,6 mg/l
Soil			0,852 mg/kg
556-67-2	octamethylcyclotetrasiloxane		
Soil			0,54 mg/kg

**8.2. Exposure controls****Appropriate engineering controls**

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear safety glasses; chemical goggles (if splashing is possible). EN ISO 16321-1:2022

**Hand protection**

Wear suitable gloves.

Suitable material:

FKM (fluororubber). - Thickness of glove material: 0,4 mm

Breakthrough time  $\geq$  8 h

Butyl rubber. - Thickness of glove material: 0,5 mm

Breakthrough time  $\geq$  8 h

CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm

Breakthrough time  $\geq$  8 h

NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm

Breakthrough time  $\geq$  8 h

PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm

Breakthrough time  $\geq$  8 h

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For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

The selected protective gloves have to satisfy the specifications of EU Directive EC/ 2016/425 and the standard EN 374 derived from it.

Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well.

**Skin protection**

Suitable protective clothing: Lab apron.

**Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

- Exceeding exposure limit values
- Insufficient ventilation and aerosol or mist formation

Suitable respiratory protection apparatus: particulates filter device (DIN EN 143). Type:: P1-3

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

**Environmental exposure controls**

Do not allow uncontrolled discharge of product into the environment.

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

Physical state:	liquid
Colour:	transparent
Odour:	Petroleum
Odour threshold:	not determined

	Test method
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	97 °C N/A
Flammability:	not determined
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Flash point:	45 °C
Auto-ignition temperature:	not determined
Decomposition temperature:	not relevant
pH-Value:	not determined
Viscosity / kinematic:	not determined
Water solubility:	not determined
Solubility in other solvents	not determined
Dissolution rate:	not relevant
Partition coefficient n-octanol/water:	not relevant
Dispersion stability:	not relevant
Vapour pressure:	not determined
Density:	not determined
Bulk density:	not relevant
Relative vapour density:	not determined
Particle characteristics:	not relevant

**9.2. Other information****Information with regard to physical hazard classes**

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**Explosive properties**

Vapours can form explosive mixtures with air.

**Sustained combustibility:**

No sustained combustibility

**Self-ignition temperature**

Solid:

not relevant

Gas:

not determined

**Oxidizing properties**

none

**Other safety characteristics****Evaporation rate:**

not determined

**Solvent separation test:**

not determined

**Solvent content:**

not determined

**Solid content:**

not determined

**Sublimation point:**

not relevant

**Softening point:**

not relevant

**Pour point:**

not relevant

**Viscosity / dynamic:**

not determined

**Flow time:**

not determined

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

No information available.

**10.2. Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.

**10.3. Possibility of hazardous reactions**

Vapours can form explosive mixtures with air.

Refer to section 10.5.

**10.4. Conditions to avoid**

Protect against: UV-radiation/sunlight. heat.

**10.5. Incompatible materials**

Materials to avoid: Oxidising agent, strong. Reducing agents, strong.

**10.6. Hazardous decomposition products**

Does not decompose when used for intended uses.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Toxicokinetics, metabolism and distribution**

No data available.

**Acute toxicity**

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

**ATEmix calculated**

ATE (oral) &gt; 5000 mg/kg; ATE (dermal) &gt; 5000 mg/kg; ATE (inhalation vapour) &gt; 50 mg/l; ATE (inhalation dust/mist) &gt; 12,5 mg/l

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
69430-37-1	Aminoalkoxydimethylpolysiloxane				
	oral	LD50 mg/kg	>5000	Rat	read across
546-68-9	Titanium tetraisopropanolate				
	oral	LD50 mg/kg	7500	Rat	REACH Dossier
	dermal	LD50 mg/kg	12870	Rabbit	REACH Dossier
1330-20-7	xylene				
	oral	LD50 mg/kg	3523	Rat	REACH Dossier
	dermal	LD50 mg/kg	(12126)	Rabbit	REACH Dossier
	inhalation (4 h) vapour	LC50 mg/l	27124	Rat	REACH Dossier
	inhalation dust/mist	ATE	1,5 mg/l		
108-88-3	toluene				
	oral	LD50 mg/kg	>5000	Rat	ECHA Dossier
	dermal	LD50 mg/kg	>5000	Rabbit	ECHA Dossier
	inhalation (4 h) vapour	LC50	28,1 mg/l	Rat	ECHA Dossier
94-96-2	2-ethylhexane-1,3-diol; octylene glycol; ethoexadiol				
	oral	LD50 mg/kg	>2000	Rat	ECHA Dossier
67-56-1	methanol				
	oral	ATE mg/kg	100		
	dermal	ATE mg/kg	300		
	inhalation vapour	ATE	3 mg/l		
	inhalation dust/mist	ATE	0,5 mg/l		
108-88-3	toluene				
	oral	LD50 mg/kg	>5000	Rat	ECHA Dossier
	dermal	LD50 mg/kg	>5000	Rabbit	ECHA Dossier
	inhalation (4 h) vapour	LC50 mg/l	(28,1)	Rat	ECHA Dossier
100-41-4	ethylbenzene				
	oral	LD50 mg/kg	3500	Rat	REACH Dossier
	dermal	LD50 mg/kg	>15000	Rabbit	REACH Dossier
	inhalation (4 h) vapour	LC50	17,2 mg/l	Rat	REACH Dossier
	inhalation dust/mist	ATE	1,5 mg/l		
556-67-2	octamethylcyclotetrasiloxane				

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	oral	LD50 mg/kg	(> 4800)	Rat	ECHA Dossier	OECD Guideline 401
	dermal	LD50 mg/kg	(> 2000)	Rat	ECHA Dossier	OECD Guideline 402

**Irritation and corrosivity**

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye irritation.

**Sensitising effects**

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

**Carcinogenic/mutagenic/toxic effects for reproduction**

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

Carcinogenicity: Based on available data, the classification criteria are not met.

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

xylene:

In-vitro mutagenicity: Method: EU Method B.10 (Mutagenicity - In Vitro Mammalian Chromosome Aberration Test); Result: negative. Literature information: REACH Dossier; Developmental toxicity/teratogenicity : NOAEL >= 500ppm (OECD Guideline 414); Literature information: REACH Dossier; Carcinogenicity: Method: EU Method B.32 (Carcinogenicity Test); Species: Rat; Exposure duration: 24 months. Result: NOAEL = 500 mg/kg; Literature information: REACH Dossier; Reproductive toxicity: Method: (inhalation.): EPA OPPTS 870.3800 (Reproduction and Fertility Effects); Species: Rat ; Exposure duration: 14d.Results: NOAEC = 500 ppm. Literature information: REACH Dossier

toluene:

In-vitro mutagenicity: Method: OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test); Result: negative. Literature information: REACH Dossier; Carcinogenicity: Method: [inhalative, OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)]; Species: Rat ; Exposure duration: 2 years ; Result: NOAEC = 4522 mg/m<sup>3</sup>; Literature information: REACH Dossier; Reproductive toxicity: Method: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study); Species: Rat ; Result: NOAEC = 1875 mg/m<sup>3</sup>; Literature information: REACH Dossier ; Developmental toxicity/teratogenicity: Method: [inhalative, EPA OTS 798.4350 (Inhalation Developmental Toxicity Screen)]; Species: Rabbit; Exposure duration: 20d ; Result: NOEC = 2812 mg/kg; Literature information: REACH Dossier

methanol:

Germ cell mutagenicity: Method: OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test). Species: Mouse.; Result: negative. Literature information: REACH Dossier; Carcinogenicity: Method: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies). Length of test: 18 m. Species: Mouse.; Result: NOAEC = 1,3 mg/l; Literature information: REACH Dossier; Reproductive toxicity: Method: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study). Species: Rat Result: NOAEC = 1,3 mg/l; Literature information: REACH Dossier; Developmental toxicity/teratogenicity: Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study). Species: Rabbit. Result: NOAEL = 1000 mg/kg; Literature information: REACH Dossier

ethylbenzene:

In-vitro mutagenicity: Method: OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test); Result: negative. Literature information: REACH Dossier; Carcinogenicity: Method: (inhalation.): OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies, 6h/d); Species: Mouse. ; Exposure duration: 2 years ; Result: NOAEL = 250 ppm; Literature information: REACH Dossier; Reproductive toxicity: Method: (inhalation.): OECD Guideline 415 (One-Generation Reproduction Toxicity Study, 6h/d); Species: Rat; Exposure duration: 28d. Result: NOAEL = 500 ppm; Literature information: REACH Dossier; Developmental toxicity/teratogenicity: Method: (inhalation.): OECD Guideline 414 (Prenatal Developmental Toxicity Study); Species: Rat; Exposure duration: 20d. Result: NOAEL = 500 ppm; Literature information: REACH Dossier

In-vitro mutagenicity:

Method:

- OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
- OECD Guideline 471 (Bacterial Reverse Mutation Assay)
- OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)

Result: negative.

Literature information: REACH Dossier

In vivo mutagenicity/genotoxicity:

Method: OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)

Species: Rat

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Results: negative.

Literature information: REACH Dossier

octamethylcyclotetrasiloxane:

Reproductive toxicity:

Method: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)

Species: Rat

Results: NOAEL = 300 ppm.

Literature information: REACH Dossier

Developmental toxicity/teratogenicity:

Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study)

Species: Rat

Results: NOAEL &gt;= 500 ppm (Inhalation)

Literature information: REACH Dossier

**STOT-single exposure**

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

**STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure. (Stoddard solvent; Low boiling point naphtha - unspecified)

xylene:

Subchronic oral toxicity: Method: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents);

Species: Rat ; Exposure duration: 90d. Result: NOAEL = 750 mg/kg (male.) = 150 mg/kg (female.); Literature information: REACH Dossier

toluene:

Subchronic oral toxicity: Method: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents); Species: Mouse. ; Exposure duration: 90d; Result: NOEL = 625 mg/kg ;

Literature information: REACH Dossier; Subchronic inhalation toxicity: Method: -; Species: Rat. Exposure duration: 1 year ; Result: NOAEC = 1131 mg/m<sup>3</sup>; Literature information: REACH Dossier

methanol:

Chronic inhalative toxicity: Method: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies). Length of test: 12 m . Exposure time: 20 h/d. Species: Rat

Result: Result: NOAEC = 1,3 mg/l. Literature information: REACH Dossier

ethylbenzene:

Subchronic oral toxicity: Method: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents);

Species: Rat; Exposure duration: 90d. Result: NOAEL = 75 mg/kg; Literature information: REACH Dossier;

Subacute inhalative toxicity: Method: OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day, 6h/d); Species: Mouse.; Exposure duration: 28 d. Result: NOAEL = 800 ppm. Literature information: REACH Dossier

octamethylcyclotetrasiloxane:

Chronic inhalative toxicity:

Method: other guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

Exposure time: 2 years

Species: Rat

Results: NOAEC = 150 ppm.

Literature information: REACH Dossier

Subacute dermal toxicity:

Method: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)

Species: Rabbit

Results: NOAEL &gt;1000 mg/kg

Literature information: REACH Dossier

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**Aspiration hazard**

May be fatal if swallowed and enters airways.

**Specific effects in experiment on an animal**

No data available.

**11.2. Information on other hazards****Endocrine disrupting properties**

Endocrine disrupting properties: octamethylcyclotetrasiloxane.

The substance is included in one of the lists of endocrine disruptors (list III). This product does not contain a substance (> 0,1%) that has endocrine disrupting properties with respect to humans as no components meets the criteria.

**Other information**

No data available.

**SECTION 12: Ecological information****12.1. Toxicity**

Harmful to aquatic life with long lasting effects.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
546-68-9	Titanium tetraisopropanolate					
	Acute fish toxicity	LC50 10000 mg/l	96 h	Pimephales promelas	REACH Dossier	
	Acute algae toxicity	ErC50 > 820 mg/l	72 h	Desmodesmus subspicatus	REACH Dossier	OECD 201
1330-20-7	xylene					
	Acute fish toxicity	LL50 4,667 - 5,921 mg/l	96 h		REACH Dossier	TLM QSAR
	Acute algae toxicity	ErC50 EL50 4,831 - 6,129 mg/l	72 h		REACH Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 8,730 - 11,076 mg/l	48 h		REACH Dossier	TLM QSAR
	Fish toxicity	NOEC NOELR: 0,894 - 1,134 mg/l	21 d		REACH Dossier	TLM QSAR
	Algae toxicity	NOEC NOELR: 0,925 - 1,174 mg/l	3 d		REACH Dossier	TLM QSAR
	Crustacea toxicity	NOEC NOELR: 1,672 - 2,122 mg/l	7 d		REACH Dossier	TLM QSAR
	Acute bacteria toxicity	EC50 EL50: 71,286 - 90,449 mg/l ( )	0,5 h		REACH Dossier	OECD Guideline 209
108-88-3	toluene					
	Acute fish toxicity	LC50 (5,5) mg/l	96 h	Oncorhynchus kisutch	ECHA Dossier	
	Acute algae toxicity	ErC50 12,5 mg/l	72 h	Pseudokirchneriella subcapitata	MSDS external	
	Acute crustacea toxicity	EC50 (3,78) mg/l	48 h	Ceriodaphnia dubia	ECHA Dossier	
	Fish toxicity	NOEC 1,4 mg/l	40 d	other	MSDS external	
	Crustacea toxicity	NOEC 0,74 mg/l	7 d	Ceriodaphnia Dubia	MSDS external	
	Acute bacteria toxicity	EC50 134 mg/l ( )	3 h	Chlorella vulgaris and Chlamydomonas angulosa	ECHA Dossier	
94-96-2	2-ethylhexane-1,3-diol; octylene glycol; ethoexadiol					
	Acute crustacea toxicity	EC50 >100 mg/l	48 h	Daphnia magna	ECHA Dossier	
67-56-1	methanol					
	Acute fish toxicity	LC50 15400 mg/l	96 h	Lepomis macrochirus	ECHA Dossier	
	Acute algae toxicity	ErC50 22000 mg/l	96 h	Pseudokirchneriella subcapitata	Ecotoxicology and Environmental Safety 7	OECD Guideline 201
	Acute crustacea toxicity	EC50 > 10000 mg/l	48 h	Daphnia magna	Water Research 23(4): 495-499 (1989)	DIN 38412 Teil 11
108-88-3	toluene					
	Acute fish toxicity	LC50 (5,5) mg/l	96 h	Oncorhynchus kisutch	ECHA Dossier	
	Acute algae toxicity	ErC50 (12,5) mg/l	72 h		GESTIS	

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	Acute crustacea toxicity	EC50 mg/l	(3,78)	48 h	Ceriodaphnia dubia	ECHA Dossier	
	Acute bacteria toxicity	EC50 ( )	134 mg/l	3 h	Chlorella vulgaris and Chlamydomonas angulosa	ECHA Dossier	
100-41-4	ethylbenzene						
	Acute fish toxicity	LC50	5,1 mg/l	96 h	Menidia menidia	REACH Dossier	
	Acute algae toxicity	ErC50	3,6 mg/l	96 h	Pseudokirchnerella subcapitata	REACH Dossier	
	Acute crustacea toxicity	EC50 mg/l	1,8-2,8	48 h	Daphnia magna	REACH Dossier	
	Crustacea toxicity	NOEC mg/l	0,96	7 d	Ceriodaphnia dubia	REACH Dossier	
111-84-2	Nonane						
	Acute crustacea toxicity	EC50	0,2 mg/l	48 h	Daphnia magna	ECHA dossier	
556-67-2	octamethylcyclotetrasiloxane						
	Acute algae toxicity	ErC50 mg/l	(> 0,022)	96 h	Pseudokirchneriella subcapitata	Study report (1990)	EPA OTS 797.1050
	Acute crustacea toxicity	EC50 mg/l	(> 0,015)	48 h	Daphnia magna	Env. Toxicol. & Chemistry 14, 1639-1647	EPA OTS 797.1300
	Fish toxicity	NOEC (>= 0,0044) mg/l		93 d	Oncorhynchus mykiss	Env. Toxicol. & Chemistry 14, 1639-1647	other: 40 CFR 797.1600
	Crustacea toxicity	NOEC (>= 0,015) mg/l		21 d	Daphnia magna	Env. Toxicol. & Chemistry  14, 1639-1647	EPA OTS 797.1330

### 12.2. Persistence and degradability

CAS No	Chemical name						
	Method	Value	d	Source			
	Evaluation						
1330-20-7	xylene						
	OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D	>= 90 %	28	REACH Dossier			
	Readily biodegradable (according to OECD criteria).						
108-88-3	toluene						
	OECD 301C/ ISO 9408/ EEC 92/69/V, C.4-F	100%	14	MSDS external			
	Readily biodegradable (according to OECD criteria).						
94-96-2	2-ethylhexane-1,3-diol; octylene glycol; ethoexadiol						
	OECD 301E/ EEC 92/69/V, C.4-B	>70	28	ECHA Dossier			
	Readily biodegradable (according to OECD criteria).						
67-56-1	methanol						
	other guideline	76%	20	ECHA Dossier			
	Readily biodegradable (according to OECD criteria).						
100-41-4	ethylbenzene						
	ISO 14593-CO2-Headspace Test	79	28	REACH Dossier			
	Readily biodegradable (according to OECD criteria).						

### 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

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**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
546-68-9	Titanium tetraisopropanolate	1,13
1330-20-7	xylene	3,12 - 3,2
108-88-3	toluene	2,73
67-56-1	methanol	-0,77
108-88-3	toluene	2,73
100-41-4	ethylbenzene	3,6
111-84-2	Nonane	5,65
556-67-2	octamethylcyclotetrasiloxane	6,488

**BCF**

CAS No	Chemical name	BCF	Species	Source
1330-20-7	xylene	25,9		REACH Dossier
108-88-3	toluene	13,2-90	Fish	MSDS external
67-56-1	methanol	1	Cyprinus carpio	Comparative Biochemi
556-67-2	octamethylcyclotetrasiloxane	12400	Pimephales promelas	ECHA Dossier

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

The mixture contains the following substances fulfilling the PBT criteria according to REACH, annex XIII: octamethylcyclotetrasiloxane.

The mixture contains the following substances fulfilling the vPvB criteria according to REACH, annex XIII: octamethylcyclotetrasiloxane.

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

**12.7. Other adverse effects**

No data available.

**Further information**

Do not allow to enter into surface water or drains.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal.

Non-contaminated packages may be recycled.

According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

**List of Wastes Code - residues/unused products**

200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing hazardous substances; hazardous waste

**List of Wastes Code - used product**

200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing hazardous substances; hazardous waste

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#### List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

#### Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

**14.1. UN number or ID number:** UN 1993  
**14.2. UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (Aminoalkoxydimethylpolysiloxane, Stoddard solvent; Low boiling point naphtha - unspecified)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
 Hazard label: 3



Classification code: F1  
 Special Provisions: 274 601  
 Limited quantity: 5 L  
 Excepted quantity: E1  
 Transport category: 3  
 Hazard No: 30  
 Tunnel restriction code: D/E

#### Inland waterways transport (ADN)

**14.1. UN number or ID number:** UN 1993  
**14.2. UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (Aminoalkoxydimethylpolysiloxane, Stoddard solvent; Low boiling point naphtha - unspecified)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
 Hazard label: 3



Classification code: F1  
 Special Provisions: 274 601  
 Limited quantity: 5 L  
 Excepted quantity: E1

#### Marine transport (IMDG)

**14.1. UN number or ID number:** UN 1993  
**14.2. UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (Aminoalkoxydimethylpolysiloxane, Stoddard solvent; Low boiling point naphtha - unspecified)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
 Hazard label: 3



Marine pollutant: YES

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Special Provisions: 223, 274, 955  
 Limited quantity: 5 L  
 Excepted quantity: E1  
 EmS: F-E, S-E

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number or ID number:** UN 1993  
**14.2. UN proper shipping name:** FLAMMABLE LIQUID, N.O.S. (Aminoalkoxydimethylpolysiloxane, Stoddard solvent; Low boiling point naphtha - unspecified)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
 Hazard label: 3



Special Provisions: A3  
 Limited quantity Passenger: 10 L  
 Passenger LQ: Y344  
 Excepted quantity: E1  
 IATA-packing instructions - Passenger: 355  
 IATA-max. quantity - Passenger: 60 L  
 IATA-packing instructions - Cargo: 366  
 IATA-max. quantity - Cargo: 220 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: Stoddard solvent; Low boiling point naphtha - unspecified

**14.6. Special precautions for user**

refer to section 6 - 8

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

not relevant

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):  
 octamethylcyclotetrasiloxane

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 48, Entry 69, Entry 75

Directive 2010/75/EU on industrial emissions: No information available.

Directive 2004/42/EC on VOC in paints and varnishes: No information available.

Information according to Directive 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

**Additional information**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878)  
 The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].  
 REACH 1907/2006 Appendix XVII, No (mixture): 3, 40, 69

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This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: octamethylcyclotetrasiloxane (CAS 556-67-2). Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 2 - obviously hazardous to water

**15.2. Chemical safety assessment**

For the following substances of this mixture a chemical safety assessment has been carried out:  
xylene

**SECTION 16: Other information****Changes**

Rev. 1,00, Initial release 25.04.2014  
Rev. 1,01, 13.03.2015, Changes in section: 2, 3, 16.  
Rev. 2,00; 28.12.2017, Changes in section: 1-16.  
Rev. 3,00; 11.07.2018, Changes in section: 1-16.  
Rev. 3,10; 16.07.2019, Changes in section: 2, 3, 15.  
Rev. 4,00; 13.04.2021; Changes in section: 1-16  
Rev. 4.1; 26.08.2021; Changes in section: 2,3, 16  
Rev. 4,2; 04.04.2023, Changes in section: 1 - 3, 6, 8 - 12, 15, 16  
Rev. 5,0; 24.03.2025, Changes in section: 2 - 16

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**Abbreviations and acronyms**

Flam. Liq: Flammable liquid  
Acute Tox: Acute toxicity  
Asp. Tox: Aspiration hazard  
Skin Irrit: Skin irritation  
Eye Dam: Eye damage  
Eye Irrit: Eye irritation  
Repr: Reproductive toxicity  
STOT SE: Specific target organ toxicity - single exposure  
STOT RE: Specific target organ toxicity - repeated exposure  
Aquatic Acute: Acute aquatic hazard  
Aquatic Chronic: Chronic aquatic hazard  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
CAS: Chemical Abstracts Service  
CLP: Classification, Labelling and Packaging of substances and mixtures  
DNEL: Derived No Effect Level  
d: day(s)  
EINECS: European INventory of Existing Commercial chemical Substances  
ELINCS: European List of Notified Chemical Substances  
ECHA: European Chemicals Agency  
EWC: European Waste Catalogue  
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)  
h: hour  
LOAEL: Lowest observed adverse effect level  
LOAEC: Lowest observed adverse effect concentration  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
NOAEL: No observed adverse effect level  
NOAEC: No observed adverse effect concentration  
NLP: No-Longer Polymers  
N/A: not applicable  
OECD: Organisation for Economic Co-operation and Development  
PNEC: predicted no effect concentration  
PBT: Persistent bioaccumulative toxic  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail )  
REACH: Registration, Evaluation, Authorisation of Chemicals  
SVHC: substance of very high concern  
TRGS: Technische Regeln für Gefahrstoffe  
UN: United Nations  
VOC: Volatile Organic Compounds  
WGK: Water Hazard Class (Germany)

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**Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]**

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
STOT RE 2; H373	Calculation method
Asp. Tox. 1; H304	Calculation method
Aquatic Chronic 3; H412	Calculation method

**Relevant H and EUH statements (number and full text)**

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs (...) through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*