

according to Regulation (EC) No 1907/2006 (REACH) as amended

## S 2380 EPOLEX FOR FLOOR

Creation date	30th May 2017	Version	4.0
Revision date	29th July 2021		

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

- 1.1. Product identifier**  
Substance / mixture S 2380 EPOLEX FOR FLOOR mixture  
UFI K1UV-G0NU-A00F-3EXF  
Other mixture names Two pack epoxy paint for floor ( part A )

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

**Mixture's intended use**

Varnish.

**Mixture uses advised against**

The product should not be used in ways other than those referred in Section 1.

**Main intended use**

PC-PNT-3 Paints/coatings - Protective and functional

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

**Manufacturer**

Name or trade name	BARVY A LAKY TELURIA,s.r.o.
Address	č.p.1, Skrchov, 679 61 Czech Republic
Identification number (CRN)	43420371
VAT Reg No	CZ43420371
Phone	+420 516 474 211
E-mail	tel@teluria.cz
Web address	http://www.bal.cz

**Competent person responsible for the safety data sheet**

Name	BARVY A LAKY TELURIA,s.r.o.
E-mail	tel@teluria.cz

**1.4. Emergency telephone number**

European emergency number: 112

### SECTION 2: Hazards identification

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

**Classification of the mixture in accordance with Regulation (EC) No 1272/2008**

The mixture is classified as dangerous.

Skin Irrit. 2, H315  
Skin Sens. 1, H317  
Eye Irrit. 2, H319  
Aquatic Chronic 2, H411

Full text of all classifications and hazard statements is given in the section 16.

**Most serious adverse effects on human health and the environment**

Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.

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### 2.2. Label elements

#### Hazard pictogram



#### Signal word

Warning

#### Hazardous substances

bis-[4-(2,3-epoxipropoxy)phenyl]propane  
 oxirane, mono[(C12-14-alkyloxy)methyl] derivs.  
 fatty acids, C14-18 and C16-18-unsaturated, maleated

#### Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic 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.
P264	Wash hands and exposed parts of the body thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container to in accordance with local regulations by handing over to a person authorized to dispose of waste or a site designated by the town.

#### Supplemental information

EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.	
Density	1,30 - 1,40 g/cm <sup>3</sup> at 23 °C (hardened mixture)	
VOC	0,04 kg/kg hardened mixture	
TOC	0,02 kg/kg hardened mixture	
Dry matter	96 směs % volume	
VOC limit value	cat. A (j) SB: 500 g/l	
Max. VOC content in the product in its ready to use condition	20 g/l	

### 2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

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### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

Dispersion of pigments and fillers in a solution of epoxy resin of low molecular weight with addition of additives.

**Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment**

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 603-073-00-2 CAS: 1675-54-3 EC: 216-823-5 Registration number: 01-2119456619-26	bis-[4-(2,3-epoxipropoxy)phenyl]propane	41-54	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411 Specific concentration limit: Skin Irrit. 2, H315: C ≥ 5 % Eye Irrit. 2, H319: C ≥ 5 %	
Index: 603-103-00-4 CAS: 68609-97-2 EC: 271-846-8 Registration number: 01-2119485289-22	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	11-14	Skin Irrit. 2, H315 Skin Sens. 1, H317	
Index: 022-006-00-2 CAS: 13463-67-7 EC: 236-675-5 Registration number: 01-2119489379-17-0013	titanium dioxide	10-12	Carc. 2, H351 (inhalation) EUH211 EUH212	1, 2, 3
CAS: 14807-96-6 EC: 238-877-9	talco (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	5	not classified as dangerous	
CAS: 1302-78-9	bentonite dust	3	not classified as dangerous	
Index: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 Registration number: 01-2119457610-43	ethanol	1,5	Flam. Liq. 2, H225 Eye Irrit. 2, H319	
	Phosphoric acid polyester	1	Eye Irrit. 2, H319	
EC: 288-306-2 Registration number: 01-2119976378-19	fatty acids, C14-18 and C16-18-unsaturated, maleated	0,3-0,5	Skin Irrit. 2, H315 Skin Sens. 1, H317	

#### Notes

- Note V: If the substance is to be placed on the market as fibres (with diameter < 3 µm, length > 5 µm and aspect ratio ≥ 3:1) or particles of the substance fulfilling the WHO fibre criteria or as particles with modified surface chemistry, their hazardous properties must be evaluated in accordance with Title II of this Regulation, to assess whether a higher category (Carc. 1B or 1A) and/or additional routes of exposure (oral or dermal) should be applied.
- Note W: It has been observed that the carcinogenic hazard of this substance arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.

This note aims to describe the particular toxicity of the substance; it does not constitute a criterion for classification according to this Regulation.

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3 Note 10: The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ .

Full text of all classifications and hazard statements is given in the section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

##### If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

##### If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

##### If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

##### If swallowed

Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment if the person has any health problems.

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

##### If inhaled

Not expected.

##### If on skin

May cause an allergic skin reaction.

##### If in eyes

Causes serious eye irritation.

##### If swallowed

Irritation, nausea.

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

Symptomatic treatment. If you see a doctor, take this safety data sheet with you.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

##### Unsuitable extinguishing media

Water - full jet.

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

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

#### 5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

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### SECTION 6: Accidental release measures

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

For workers apart from emergency teams: Avoid inhalation of vapour, prevent skin and eye contact. Wear appropriate protective clothing and gloves. Wear eye protection and face shield if necessary. Use suitable respiratory protection. In closed spaces, ensure fresh air supply. Eliminate all ignition sources. No smoking and no open fire. Keep unnecessary personnel away.

For members of emergency teams: Use appropriate personal protective equipment – protective clothing with antistatic finish and impermeable work shoes. Treat unprotected skin with barrier cream. Anti-chemical protective gloves. For short-time exposure or low concentration, use respirator with organic vapour and dust filter (protection level A/P2); for high concentration and long-term exposure, self-contained respirator is necessary.

#### 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. If possible prevent leakage, close container and place damaged container in protective container.

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

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

#### 6.4. Reference to other sections

See the Section 7, 8 and 13.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### 7.1.1. General health measures

Use the product after due familiarization with its hazard characteristics and proper training or training in its safe use. Do not eat, drink, smoke on the site. Wash your hands and other contaminated parts of body by soap and water before eating and after the use of product is finished. Abide by requirements on personal hygiene when working with hazardous chemical products.

Use technical equipment on the site to control human and environment exposure. Regularly inspect the equipment, ensure cleaning, timely maintenance and permanent functionality. When working, use the recommended personal protective equipment listed in 8.2 of the Safety Data Sheet. Keep the protective clothing and protective equipment sound and clean. Immediately replace the damaged protective aids for sound ones. Keep the site, tools and aids clean and in sound state. On the site, keep the product in labelled containers or tanks. Store product waste and wastes contaminated by the product in suitable and properly labelled vessels located on designated marked and protected places. Ensure long-term storing of wastes containing the product outside the site.

##### 7.1.2. Fire precautions

When using the product, prevent potential ignition or explosion of the mixture of product vapour and air caused by contact with open flame, sparks, extremely hot surfaces, electrostatic discharges. Do not smoke on the site, use non-sparking tools. Places with increased occurrence of the vapour-air mixture need to be ventilated to prevent formation of explosive mixtures. Solvent vapours are heavier than air. The site should be protected from electrostatic discharges.

##### 7.1.3. Environmental precautions

Handle the product on a site technically adapted to avoid accidental leakage to sewerage systems, water or soil. Product waste and wastes contaminated by the product to be disposed of as hazardous waste. Waste water contaminated by the product may only be discharged to water reservoirs after the product components are properly removed in a waste water treatment plant or in other appropriate treatment plant able to remove drifted product components from water. Do not pour the product to waste water. Emissions of solvent from point sources are subjected to control requirements acc. to air protection regulations.

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

Store the product in properly marked, closed containers in well ventilated spaces at 5 – 25 °C. The storages must meet the requirements on storing of flammable liquids and substances hazardous for aquatic life and soil. Protect from heat, hot surfaces, sparks, open flame and other ignition sources. No smoking. Store away from oxidising substances and strong acids. Do not store with food, drinks, feed material, medicines. Storages should be protected from static electricity. First aid kit and water suitable for eye rinsing should be available. Keep away from products that are corrosive to metals (eg acids or pool chemicals).

Content	Packaging type	Material of package
4 kg	can / tin	FE

Storage temperature min 5 °C, max 25 °C

#### The specific requirements or rules relating to the substance/mixture

The product contains titanium dioxide. Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

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

Use in coating compositions was not assessed for substances of mixture until the issue of current safety data sheet.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

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**DNEL**

bis-[4-(2,3-epoxipropoxy)phenyl]propane

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	12.25 mg/m <sup>3</sup>	Systemic chronic effects	
Workers	Inhalation	12.25 mg/m <sup>3</sup>	Systemic acute effects	
Workers	Dermal	8.33 mg/kg bw/day	Systemic chronic effects	
Workers	Dermal	8.33 mg/kg bw/day	Systemic acute effects	
Consumers	Dermal	3.571 mg/kg bw/day	Systemic chronic effects	
Consumers	Dermal	3.571 mg/kg bw/day	Systemic acute effects	
Consumers	Oral	0.75 mg/kg bw/day	Systemic chronic effects	

ethanol

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	950 mg/m <sup>3</sup>	Systemic chronic effects	
Workers	Inhalation	1900 mg/m <sup>3</sup>	Local acute effects	
Workers	Dermal	343 mg/kg bw/day	Systemic chronic effects	
Consumers	Inhalation	114 mg/m <sup>3</sup>	Systemic chronic effects	
Consumers	Inhalation	950 mg/m <sup>3</sup>	Local acute effects	
Consumers	Dermal	206 mg/kg bw/day	Systemic chronic effects	
Consumers	Oral	87 mg/kg bw/day	Systemic chronic effects	

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	3.6 mg/m <sup>3</sup>	Systemic chronic effects	
Workers	Dermal	1 mg/kg bw/day	Systemic chronic effects	
Consumers	Inhalation	0.87 mg/m <sup>3</sup>	Systemic chronic effects	
Consumers	Dermal	0.5 mg/kg bw/day	Systemic chronic effects	
Consumers	Oral	0.5 mg/kg bw/day	Systemic chronic effects	

**PNEC**

bis-[4-(2,3-epoxipropoxy)phenyl]propane

Route of exposure	Value	Determining method
Microorganisms in wastewater treatment plants	10 mg/l	

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bis-[4-(2,3-epoxipropoxy)phenyl]propane

Route of exposure	Value	Determining method
Freshwater environment	6 µg/l	
Freshwater sediment	0.996 mg/kg of dry substance of sediment	
Seawater	0.6 µg/l	
Sea sediments	0.0996 mg/kg of dry substance of sediment	
Water (intermittent release)	0.018 mg/l	
Soil (agricultural)	0.196 mg/kg of dry substance of soil	

ethanol

Route of exposure	Value	Determining method
Freshwater environment	0.96 mg/l	
Seawater	0.79 mg/l	
Water (intermittent release)	2.75 mg/l	
Microorganisms in wastewater treatment plants	580 mg/l	
Freshwater sediment	3.6 mg/kg of dry substance of sediment	
Sea sediments	2.9 mg/kg of dry substance of sediment	
Soil (agricultural)	0.63 mg/kg of dry substance of soil	

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Route of exposure	Value	Determining method
Freshwater environment	105.8 µg/l	
Seawater	10.58 µg/l	
Microorganisms in wastewater treatment plants	10 mg/l	
Freshwater sediment	307.16 mg/kg of dry substance of sediment	
Sea sediments	30.72 mg/kg of dry substance of sediment	
Soil (agricultural)	1.234 mg/kg of dry substance of soil	
Water (intermittent release)	0.072 mg/l	



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### 8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. General safety and hygienic measures. When working, do not eat, drink, smoke. Before the break and after the work, hands should be washed with soap and hot water, treated with barrier cream. Overall and local ventilation, effective extraction.

#### Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

#### Skin protection

Skin protection: Protective clothes with antistatic finish, protective shoes; treat unprotected skin with barrier cream. Hand protection: Chemical resistant protective gloves (EN 374-1:2003). Suitable material – nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinyl chloride (0.7 mm) and others, time of penetration corresponding to > 480 minutes. The time of penetration specified by the manufacturer should be followed and the glove replaced after expiration. If damaged, the gloves should be replaced immediately.

The selection of suitable protective gloves does not only depend on their material, but also on other qualitative features. Furthermore, since the mixture can be used for various purposes, mixed with other substances, the suitability of gloves for all purposes cannot be predetermined and must be verified in particular use.

#### Respiratory protection

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

#### Thermal hazard

Not available.

#### Environmental exposure controls

Ensure that containers are properly closed during storage, handling and transport. Secure storage areas against possible leakage of product into the environment (sewerage, water, soil - see 6.2). Do not flush product into drains or watercourses.

## SECTION 9: Physical and chemical properties

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

Physical state	liquid
Colour	grey
Odour	specific
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	>120 °C (ČSN EN ISO 2719)
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	non-soluble (in water)
Kinematic viscosity	>20,5 mm <sup>2</sup> /s at 40 °C
Solubility in water	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	1,30 - 1,40 g/cm <sup>3</sup> at 23 °C (hardened mixture)
Form	

### 9.2. Other information

Oxidising properties	The product has no oxidizing properties.
Explosive properties	The product does not have explosive properties.
Content of organic solvents (VOC)	0,04 kg/kg hardened mixture

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Total organic carbon (TOC)	0,02 kg/kg hardened mixture		
Solid content (dry matter)	96 směs % volume		
VOC limit value	cat. A (j) SB: 500 g/l		
Max. VOC content in the product in its ready to use condition	20 g/l		

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

When used in the standard way, there is not any dangerous reaction with other substances.

#### 10.2. Chemical stability

The product is volatile and evaporates under standard temperature and pressure. It is stable when stored and handled under standard ambient conditions.

#### 10.3. Possibility of hazardous reactions

No known dangerous reactions when used under standard conditions. Flammable liquid. Vapours may form explosive mixture with air. Vapours are heavier than air, accumulate near the ground and below ground, and the fire can spread over long distances.

#### 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

#### 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

#### 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

### SECTION 11: Toxicological information

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

In terms of health effects, the mixture has not been tested as a whole; the data are adopted from Safety Data Sheets of raw material suppliers. Data that are not specified are currently not available.

#### Acute toxicity

Based on available data the classification criteria are not met.

bis-[4-(2,3-epoxipropoxy)phenyl]propane

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>		>2000 mg/kg		Rat (Rattus norvegicus)	F
Dermal	LD <sub>50</sub>		>2000 mg/kg		Rat (Rattus norvegicus)	F/M
Inhalation	LC <sub>50</sub>		0.000008 ppm	5 hour	Rat (Rattus norvegicus)	M

ethanol

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>		2000 mg/kg		Rat (Rattus norvegicus)	

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fatty acids, C14-18 and C16-18-unsaturated, maleated

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>	OECD 423	>2000 mg/kg		Rat	F

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>		30.1 ml/kg bw		Rat (Rattus norvegicus)	
Inhalation	LC <sub>0</sub>		0.15 mg/l	7 hour	Rat (Rattus norvegicus)	
Dermal	LD 0		4.5 ml/kg bw		Rabbit	

titanium dioxide

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>		5000 mg/kg			
Inhalation	LC <sub>50</sub>		6.82 mg/l			

### Skin corrosion/irritation

Causes skin irritation.

### Serious eye damage/irritation

Causes serious eye irritation.

### Respiratory or skin sensitisation

May cause an allergic skin reaction.

### 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.

### Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

### Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

### Aspiration hazard

Based on available data the classification criteria are not met.

## 11.2. Information on other hazards

Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

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### SECTION 12: Ecological information

#### 12.1. Toxicity

##### Acute toxicity

The complete mixture has not been tested. The classification is based on the calculation method. Information on toxic effects are based on the effects of the substances, the data are taken from the safety data sheets of raw materials. The mixture is classified as dangerous for the environment. Toxic to aquatic life with long lasting effects. The mixture is a source of volatile organic emissions. Avoid release to the environment.

bis-[4-(2,3-epoxipropoxy)phenyl]propane

Parameter	Method	Value	Time of exposure	Species	Environment
LC <sub>50</sub>		1.75 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EC <sub>50</sub>		1.7 mg/l	48 hour	Invertebrates (Daphnia magna)	
EC <sub>50</sub>		9.4 mg/l	72 hour	Algae (Selenastrum capricornutum)	
IC <sub>50</sub>		>100 mg/l	3 hour	Microorganisms	Activated sludge

ethanol

Parameter	Method	Value	Time of exposure	Species	Environment
LC <sub>50</sub>		8140 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EC <sub>50</sub>		9248 mg/l	48 hour	Daphnia (Daphnia magna)	
EC <sub>50</sub>		5000 mg/l	72 hour	Algae (Selenastrum capricornutum)	

fatty acids, C14-18 and C16-18-unsaturated, maleated

Parameter	Method	Value	Time of exposure	Species	Environment
LC <sub>50</sub>		>150 mg/l	48 hour	Fishes (Leuciscus idus)	
EC <sub>50</sub>	OECD 202	>100 mg/l	48 hour	Daphnia (Daphnia magna)	
EC <sub>50</sub>	OECD 209	>1000 mg/l	3 hour	Bacteria	Activated sludge
ErC <sub>50</sub>	OECD 201	>100 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	

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oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Parameter	Method	Value	Time of exposure	Species	Environment
LL 50		>100 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EC <sub>50</sub>		7.2 mg/l	48 hour	Aquatic invertebrates (Daphnia magna)	
IC <sub>50</sub>		843.75 mg/l	72 hour	Algae and other aquatic plants (Pseudokirchneriella subcapitata)	
EC <sub>50</sub>		>100 mg/l	3 hour	Microorganisms (Photobacterium phosphoreum)	Activated sludge

### 12.2. Persistence and degradability

#### Biodegradability

bis-[4-(2,3-epoxipropoxy)phenyl]propane

Parameter	Method	Value	Time of exposure	Environment	Result
		6-12 %	28 day		Hardly biodegradable

fatty acids, C14-18 and C16-18-unsaturated, maleated

Parameter	Method	Value	Time of exposure	Environment	Result
	OECD 301				Hardly biodegradable

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Parameter	Method	Value	Time of exposure	Environment	Result
		87 %	28 day		Biodegradable

Data for mixture not available.

### 12.3. Bioaccumulative potential

bis-[4-(2,3-epoxipropoxy)phenyl]propane

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
log BCF	1.11				
Log Pow	3.26				25°C

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
BCF	263				
Log Pow	6				20°C

according to Regulation (EC) No 1907/2006 (REACH) as amended

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Data for mixture not available.

### 12.4. Mobility in soil

bis-[4-(2,3-epoxipropoxy)phenyl]propane

Parameter	Value	Environment	Surrounding temperature
Log Koc	2.55		20°C

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Parameter	Value	Environment	Surrounding temperature
Log Koc	>5.63 mg/kg		20°C

Data for mixture not available.

### 12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

### 12.6. Endocrine disrupting properties

The mixture contains substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### 12.7. Other adverse effects

Not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

#### Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

#### Waste type code

08 01 11 waste paint and varnish containing organic solvents or other hazardous substances \*

#### Packaging waste type code

15 01 10 packaging containing residues of or contaminated by hazardous substances \*

(\*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

## SECTION 14: Transport information

### 14.1. UN number or ID number

UN 3082

### 14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

### 14.3. Transport hazard class(es)

9 Miscellaneous dangerous substances and articles

according to Regulation (EC) No 1907/2006 (REACH) as amended

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### 14.4. Packing group

III - substances presenting low danger

### 14.5. Environmental hazards

The product is dangerous for the environment.

### 14.6. Special precautions for user

Reference in the Sections 4 to 8.

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

Not classified.

#### Additional information

Hazard identification No.

90

UN number

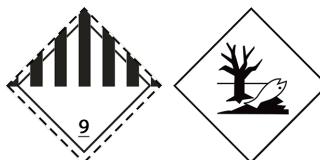
3082

Classification code

M6

Safety signs

9+ hazardous for the environment



#### Air transport - ICAO/IATA

Packaging instructions passenger

964

Cargo packaging instructions

964

#### Marine transport - IMDG

EmS (emergency plan)

F-A, S-F

## SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th 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, as amended.

### 15.2. Chemical safety assessment

Not worked out.

## SECTION 16: Other information

#### A list of standard risk phrases used in the safety data sheet

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer if inhaled.
H411	Toxic to aquatic life with long lasting effects.

#### Guidelines for safe handling used in the safety data sheet

P101	If medical advice is needed, have product container or label at hand.
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P102	Keep out of reach of children.
P280	Wear protective gloves/eye protection.
P337+P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container to in accordance with local regulations by handing over to a person authorized to dispose of waste or a site designated by the town.
P264	Wash hands and exposed parts of the body thoroughly after handling.
P273	Avoid release to the environment.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### A list of additional standard phrases used in the safety data sheet

EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
EUH212	Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

### Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

### Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EC	Identification code for each substance listed in EINECS
EC <sub>50</sub>	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC <sub>50</sub>	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC <sub>50</sub>	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD <sub>50</sub>	Lethal dose of a substance in which it can be expected death of 50% of the population
LL <sub>50</sub>	Lethal Loading for 50% of tested organisms
log K <sub>ow</sub>	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic



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PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
Without classification	Without classification

### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

### Recommended restrictions of use

not available

### Information about data sources used to compile the Safety Data Sheet

Commission Regulation (EU) 2020/878 of 18 June 2020. REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

### The changes (which information has been added, deleted or modified)

The version 3.0 replaces the SDS version of 22.01.2020. Overall revision in accordance with Commission Regulation (EU) 2020/878.

### More information

Classification procedure - calculation method.

## Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.