

PRODUCT SAFETY DATA SHEET

BARVY A LAKY TELURIA, s.r.o.



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

TELPOX F 200

Creation date	20. March 2014	Version	3.0
Revision date	02. April 2019		

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

- 1.1. Product identifier**
Substance / mixture TELPOX F 200
Other mixture names mixture
TWO-COMPONENT EPOXY SINGLE COAT FOR MINERAL SURFACES
- 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.
- 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**
National Health Service (NHS) 111
National poisoning information centre Scotland, NHS 24: 111

SECTION 2: Hazards identification

- 2.1. Substance or mixture classification**
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

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/protective clothing/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

Density 1.30 - 1.40 g/cm³
VOC 0.07 kg/kg hardened mixture
TOC 0.05 kg/kg hardened mixture
Dry matter 93 mixt. % volume
VOC limit value cat. A (i) SB: 500 g/l
Max. VOC content in the product in its ready to use condition 499 g/l

2.3. Other hazards

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

Mixture of substances and additives specified below.

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: 01-2119456619-26-0018	bis-[4-(2,3-epoxipropoxy) phenyl]propane	28-52	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.	3-12	Skin Irrit. 2, H315 Skin Sens. 1, H317	
Index: 607-195-00-7 CAS: 108-65-6 EC: 203-603-9 Registration number: 01-2119475791-29	2-methoxy-1-methylethyl acetate	0,1-5,5	Flam. Liq. 3, H226	4
EC: 905-562-9 Registration number: 01-2119555267-33	xylene (mixture of isomers and ethylbenzene)	0,1-4,5	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 4, H312+H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Specific concentration limit: Acute Tox. 4, H312+H332: C ≥ 12,5 %	1, 4
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	4
Index: 649-356-00-4 EC: 918-668-5 Registration number: 01-2119455851-35	hydrocarbons, C9, aromatics	0,1-2,1	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H335, H336 Aquatic Chronic 2, H411 EUH 066	2, 3
EC: 288-306-2 Registration number: 01-2119976378-19	fatty acids, C14-18 and C16-18-unsaturated, maleated	<0,5	Skin Irrit. 2, H315 Skin Sens. 1, H317	

Notes

- Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

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- Note P: The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260- P262-P301 + P310-P331 shall apply. This note applies only to certain complex oil-derived substances in Part 3.
- Fulfilled Note P
- Substance for which exposure limits of Community for working environment exist.

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

DO NOT INDUCE VOMITING! 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.

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

Use a self-contained breathing apparatus and full-body protective clothing. Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. 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. In the event of substantial pollution, contact respective authorities and wastewater treatment plants.

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 and in Annex to 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.

7.3. Specific end use(s)

Paint (spatula) for mineral surfaces.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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

European Union

Substance name (component)	Type	Time of exposure	Value	Note	Source
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	OEL	8 hours	275 mg/m ³	skin	EU limits
	OEL	8 hours	50 ppm	skin	
	OEL	Short-term	550 mg/m ³	skin	
	OEL	Short-term	100 ppm	skin	
xylene (mixture of isomers and ethylbenzene)	OEL	8 hours	221 mg/m ³	skin	EU limits
	OEL	8 hours	50 ppm	skin	

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European Union

Substance name (component)	Type	Time of exposure	Value	Note	Source
xylene (mixture of isomers and ethylbenzene)	OEL	Short-term	442 mg/m ³	skin	EU limits
	OEL	Short-term	100 ppm	skin	

United Kingdom of Great Britain and Northern Ireland

Substance name (component)	Type	Time of exposure	Value	Note	Source
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	WEL	8 hours	274 mg/m ³	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	GBR
	WEL	15 minutes	548 mg/m ³	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	
	WEL	8 hours	50 ppm	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	
	WEL	15 minutes	100 ppm	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	
xylene (mixture of isomers and ethylbenzene)	WEL	8 hours	220 mg/m ³	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	GBR
	WEL	15 minutes	441 mg/m ³	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	
	WEL	8 hours	50 ppm	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	

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United Kingdom of Great Britain and Northern Ireland

Substance name (component)	Type	Time of exposure	Value	Note	Source
xylene (mixture of isomers and ethylbenzene)	WEL	15 minutes	100 ppm	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.	GBR
ethanol (CAS: 64-17-5)	WEL	8 hours	1920 mg/m ³		GBR
	WEL	8 hours	1000 ppm		

DNEL

2-methoxy-1-methylethyl acetate

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	275 mg/m ³	Systemic chronic effects	
Workers	Inhalation	550 mg/m ³	Local acute effects	
Workers	Dermal	796 mg/kg bw/day	Systemic chronic effects	
Consumers	Inhalation	33 mg/m ³	Systemic chronic effects	
Consumers	Inhalation	33 mg/m ³	Systemic acute effects	
Consumers	Dermal	320 mg/kg bw/day	Systemic chronic effects	
Consumers	Oral	36 mg/kg bw/day	Systemic chronic effects	

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

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	12.25 mg/m ³	Systemic chronic effects	
Workers	Inhalation	12.25 mg/m ³	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	

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ethanol

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

hydrocarbons, C9, aromatics

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	150 mg/kg	Systemic chronic effects	
Workers	Dermal	25 mg/kg	Systemic chronic effects	
Consumers	Inhalation	32 mg/kg	Systemic chronic effects	
Consumers	Dermal	11 mg/kg	Systemic chronic effects	
Consumers	Oral	11 mg/kg	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 ³	Systemic chronic effects	
Workers	Dermal	1 mg/kg bw/day	Systemic chronic effects	
Consumers	Inhalation	0.87 mg/m ³	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	

xylene (mixture of isomers and ethylbenzene)

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	77 mg/m ³	Systemic chronic effects	
Workers	Inhalation	289 mg/m ³	Systemic acute effects	
Workers	Inhalation	289 mg/m ³	Local acute effects	
Workers	Dermal	180 mg/kg bw/day	Systemic chronic effects	
Consumers	Inhalation	14.8 mg/m ³	Systemic chronic effects	
Consumers	Inhalation	174 mg/m ³	Systemic acute effects	
Consumers	Inhalation	174 mg/m ³	Local acute effects	
Consumers	Dermal	108 mg/kg bw/day	Systemic chronic effects	
Consumers	Oral	1.6 mg/kg bw/day	Systemic chronic effects	

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PNEC

2-methoxy-1-methylethyl acetate

Route of exposure	Value	Determining method
Freshwater environment	0.635 mg/l	
Seawater	0.0635 mg/l	
Water (occasional leak)	6.35 mg/l	
Microorganisms in wastewater treatment plants	100 mg/l	
Freshwater sediment	3.29 mg/kg of dry substance of sediment	
Sea sediments	0.329 mg/kg of dry substance of sediment	
Soil (agricultural)	0.29 mg/kg of dry substance of soil	

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

Route of exposure	Value	Determining method
Microorganisms in wastewater treatment plants	10 mg/l	
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 (occasional leak)	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 (occasional leak)	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	7.2 µg/l	
Seawater	0.72 µg/l	

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

Route of exposure	Value	Determining method
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)	61.42 mg/kg of dry substance of soil	

xylene (mixture of isomers and ethylbenzene)

Route of exposure	Value	Determining method
Drinking water	0.327 mg/l	
Seawater	0.327 mg/l	
Water (occasional leak)	0.327 mg/l	
Microorganisms in wastewater treatment plants	6.58 mg/l	
Freshwater sediment	12.46 mg/kg of dry substance of sediment	
Sea sediments	12.46 mg/kg of dry substance of sediment	
Soil (agricultural)	2.31 mg/kg of dry substance of soil	

8.2. Exposure controls

Conditions of safe use of the registered coating composition components specified in exposure scenarios to Safety Data Sheets of the components are given in Annex of the SDS, including the required additional measures restricting the exposure – see the exposure scenarios for the intended uses of the coating composition.

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 (closed eye protection) resistant to organic solvent or face shield.

Skin protection

Skin protection: Protective working clothes with antistatic finish, protective work 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.

Respiratory protection

Don't breathe vapours. 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.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
Physical state	liquid at 20°C
color	according to the shade
Odour	typical aromatic
Odour threshold	data not available
pH	data not available
Melting point/freezing point	data not available
Initial boiling point and boiling range	data not available
Flash point	>120 °C
Evaporation rate	data not available
Flammability (solid, gas)	data not available
Upper/lower flammability or explosive limits	
flammability limits	data not available
explosive limits	data not available
Vapour pressure	data not available
Vapour density	data not available
Relative density	data not available
Solubility(ies)	
solubility in water	data not available
solubility in fats	data not available
Partition coefficient: n-octanol/water	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
Viscosity	data not available
Kinematic viscosity	>20.5 mm ² /s at 40°C
Explosive properties	The product does not have explosive properties.
Oxidising properties	The product has no oxidizing properties.
9.2. Other information	
Density	1.30 - 1.40 g/cm ³ at 23 °C (hardened mixture)
ignition temperature	data not available
content of organic solvents (VOC)	0.07 kg/kg hardened mixture
total organic carbon (TOC)	0.05 kg/kg hardened mixture
solid content (dry matter)	93 mixt. % volume
VOC limit value	cat. A (i) SB: 500 g/l
Max. VOC content in the product in its ready to use condition	499 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.

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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 toxicological effects

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.

2-methoxy-1-methylethyl acetate

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD ₅₀		>5000 mg/kg		Rat (Rattus norvegicus)	
Inhalation	LC ₅₀		>23500 mg/m ³	6 hour	Rat (Rattus norvegicus)	
Dermal	LD ₅₀		>5000 mg/kg		Rabbit	

ethanol

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

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

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

hydrocarbons, C9, aromatics

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD ₅₀		3492 mg/kg		Rat (Rattus norvegicus)	
Dermal	LD ₅₀		3160 mg/kg		Rabbit	
Inhalation	LC ₅₀		6193 mg/m ³	4 hour	Rat (Rattus norvegicus)	

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

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD ₅₀		30.1 ml/kg bw		Rat (Rattus norvegicus)	

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

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Inhalation	LC0		150 mg/m ³	7 hour	Rat (Rattus norvegicus)	
Dermal	LD 0		4.5 ml/kg bw		Rabbit	

xylene (mixture of isomers and ethylbenzene)

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD ₅₀		3523 mg/kg bw		Rat (Rattus norvegicus)	M
Inhalation	LC ₅₀		6350-6700 ppm	4 hour	Rat (Rattus norvegicus)	
Dermal	LD ₅₀		>5000 mg/kg		Rabbit	
Oral	LD ₅₀		>4000 mg/kg bw		Rat (Rattus norvegicus)	F
	ATE		1100 mg/kg		Rabbit	

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

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. Based on available data the classification criteria are not met.

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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.

2-methoxy-1-methylethyl acetate

Parameter	Method	Value	Time of exposure	Species	Environment
LC ₅₀		134 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EC ₅₀		408 mg/l	48 hour	Daphnia (Daphnia magna)	
ErC ₅₀		>1000 mg/l	96 hour	Algae and other aquatic plants	

ethanol

Parameter	Method	Value	Time of exposure	Species	Environment
LC ₅₀		8140 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EC ₅₀		9248 mg/l	48 hour	Daphnia (Daphnia magna)	
EC ₅₀		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 ₅₀		>150 mg/l	48 hour	Fishes (Leuciscus idus)	
EC ₅₀	OECD 202	>100 mg/l	48 hour	Daphnia (Daphnia magna)	
EC ₅₀	OECD 209	>1000 mg/l	3 hour	Bacteria	Activated sludge
ErC ₅₀	OECD 201	>100 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	

hydrocarbons, C9, aromatics

Parameter	Method	Value	Time of exposure	Species	Environment
LC ₅₀		9.2 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EC ₅₀		3.2 mg/l	48 hour	Daphnia (Daphnia magna)	
EC ₅₀		2.9 mg/l	72 hour	Algae (Selenastrum capricornutum)	

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

Parameter	Method	Value	Time of exposure	Species	Environment
LC ₅₀		100 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EC ₅₀		7.2 mg/l	48 hour	Aquatic invertebrates	
IC ₅₀		843.75 mg/l	72 hour	Algae and other aquatic plants	

xylene (mixture of isomers and ethylbenzene)

Parameter	Method	Value	Time of exposure	Species	Environment
LC ₅₀		2.6 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EC ₅₀		1 mg/l	24 hour	Daphnia (Daphnia magna)	
EC ₅₀		4.36 mg/l	72 hour	Algae (Selenastrum capricornutum)	
EC ₅₀		96 mg/l	24 hour	Microorganisms (Photobacterium phosphoreum)	

12.2. Persistence and degradability

Biodegradability

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

Parameter	Method	Value	Time of exposure	Environment	Result
					Hardly biodegradable

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

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

Data for the mixture not available.

12.3. Bioaccumulative potential

2-methoxy-1-methylethyl acetate

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
BCF	<100				
Log Pow	<3				

xylene (mixture of isomers and ethylbenzene)

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
BCF	6-23				
Log Pow	3.15-3.2				

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Not available for the mixture.

12.4. Mobility in soil

2-methoxy-1-methylethyl acetate

Parameter	Value	Environment	Surrounding temperature
Koc	1.7		

xylene (mixture of isomers and ethylbenzene)

Parameter	Value	Environment	Surrounding temperature
Koc	48-540		

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. 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 dangerous substances

Packaging waste type code

15 01 10 packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

14.1. UN 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

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.

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14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not classified.

Additional information

Hazard identification No.

90 (Kemler Code)

UN number

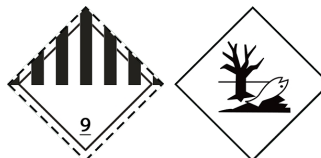
3082

Classification code

M6

Safety signs

9+dangerous 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

The chemical safety assessment has not been carried out yet.

SECTION 16: Other information

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

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.
H312+H332 Harmful in contact with skin or if inhaled.

Guidelines for safe handling used in the safety data sheet

P264 Wash hands and exposed parts of the body thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection.
P337+P313 If eye irritation persists: Get medical advice/attention.

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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.
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.
P102	Keep out of reach of children.

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

EUH 066 Repeated exposure may cause skin dryness or cracking.

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 ₅₀	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
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC ₅₀	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 ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
log K _{ow}	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution From Ships
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
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

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UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative

Acute Tox.	Acute toxicity
Aquatic Chronic	Hazardous to the aquatic environment
Asp. Tox.	Aspiration hazard
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure

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

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. First aid principles after the exposure to the chemicals (Zásady pro poskytování první pomoci při expozici chemickým látkám, doc. MUDr. Daniela Pelclová, CSc., MUDr. Alexandr Fuchs, CSc., MUDr. Miroslava Hornychová, CSc., MUDr. Zdeňka Trávníčková, CSc., Jiřina Fridrichovská, prom. chem.). Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

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

Version 1.0 (20.3.2014)

Version 2.0 (17.10.2014) - change of composition

Version 3.0 (2.4.2019) - change of the main component identification

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.