

according to Commission Regulation (EU) 2020/878 as amended

TELPOX F200

Creation date	20th March 2014	Version	4.0
Revision date	25th September 2023		

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

- 1.1. Product identifier**
Substance / mixture TELPOX F200
UFI mixture
CC9W-00X4-G003-KF87
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
TWO-COMPONENT EPOXY SINGLE COAT FOR MINERAL SURFACES.
Main intended use
PC-PNT-3 Paints/coatings - Protective and functional
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 info@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 info@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. 1A, H317
Eye Irrit. 2, H319
Aquatic Chronic 2, H411

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

maleic anhydride

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/protective clothing/eye protection.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container to be handing over to the person authorized to dispose of waste or by returning to the supplier.

Supplemental information

Density	1.3-1.4 g/cm ³ at 23 °C (hardened mixture)
VOC	0,07 kg/kg hardened mixture
TOC	0,05 kg/kg hardened mixture
Dry matter	93 % volume
VOC limit value	cat. A (j) SB: 500 g/l
Max. VOC content in the product in its ready to use condition	499 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. Substances are neither listed in Annex XIV of REACH nor on the REACH candidate list of substances of very high concern (SVHC).

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture of pigments and fillers in solution of low molecular epoxy resin with addition of additives.
The mixture contains a reaction mixture of o, m, p-xylene and ethylbenzene (ethylbenzene content <26%).

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	27,5-55	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 %	
CAS: 14807-96-6 EC: 238-877-9	talco (Mg ₃ H ₂ (SiO ₃) ₄)	9-11	not classified as dangerous	
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.	2,75-13,75	Skin Irrit. 2, H315 Skin Sens. 1, H317	
CAS: 1302-78-9 EC: 215-108-5	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	1-2	Eye Irrit. 2, H319	
EC: 905-562-9 Registration number: 01-2119555267-33	xylene (mixture of isomers and ethylbenzene)	0,84-1,4	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	1, 3
Index: 607-195-00-7 CAS: 108-65-6 EC: 203-603-9 Registration number: 01-2119475791-29	2-methoxy-1-methylethyl acetate	0,1-1,5	Flam. Liq. 3, H226	3
Index: 649-356-00-4 EC: 918-668-5 Registration number: 01-2119455851-35	hydrocarbons, C9, aromatics	0,1-0,5	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H335, H336 Aquatic Chronic 2, H411 EUH066	2, 4

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 607-096-00-9 CAS: 108-31-6 EC: 203-571-6 Registration number: 01-2119472428-31	maleic anhydride	0,0025-0,005	Acute Tox. 4, H302 Skin Corr. 1B, H314 Skin Sens. 1A, H317 Eye Dam. 1, H318 Resp. Sens. 1, H334 STOT RE 1, H372 (the respiratory system) (inhalation) EUH071 Specific concentration limit: Skin Sens. 1A, H317: C ≥ 0.001 %	

Notes

- 1 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.
- 2 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.
- 3 A substance for which exposure limits are set.
- 4 Fulfilled Note P

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.

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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.

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. 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).

Storage class 12 - Other non-combustible liquids

Storage temperature min 5 °C, max 25 °C

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

Commission Directive 2000/39/EC

Substance name (component)	Type	Value	Note
xylenes	OEL 8 hours	221 mg/m ³	Skin
	OEL 8 hours	50 ppm	
	OEL 15 minutes	442 mg/m ³	
	OEL 15 minutes	100 ppm	
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	OEL 8 hours	275 mg/m ³	Skin

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European Union
Commission Directive 2000/39/EC

Substance name (component)	Type	Value	Note
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	OEL 8 hours	50 ppm	Skin
	OEL 15 minutes	550 mg/m ³	
	OEL 15 minutes	100 ppm	

DNEL

2-methoxy-1-methylethyl acetate					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	275 mg/m ³	Chronic effects systemic		
Workers	Inhalation	550 mg/m ³	Acute effects local		
Workers	Dermal	796 mg/kg bw/day	Chronic effects systemic		
Consumers	Inhalation	33 mg/m ³	Chronic effects systemic		
Consumers	Inhalation	33 mg/m ³	Acute effects systemic		
Consumers	Dermal	320 mg/kg bw/day	Chronic effects systemic		
Consumers	Oral	36 mg/kg bw/day	Chronic effects systemic		

bis-[4-(2,3-epoxipropoxy)phenyl]propane					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	12.25 mg/m ³	Chronic effects systemic		
Workers	Inhalation	12.25 mg/m ³	Acute effects systemic		
Workers	Dermal	8.33 mg/kg bw/day	Chronic effects systemic		
Workers	Dermal	8.33 mg/kg bw/day	Acute effects systemic		
Consumers	Dermal	3.571 mg/kg bw/day	Chronic effects systemic		
Consumers	Dermal	3.571 mg/kg bw/day	Acute effects systemic		
Consumers	Oral	0.75 mg/kg bw/day	Chronic effects systemic		

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ethanol					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	950 mg/m ³	Chronic effects systemic		
Workers	Inhalation	1900 mg/m ³	Acute effects local		
Workers	Dermal	343 mg/kg bw/day	Chronic effects systemic		
Consumers	Inhalation	114 mg/m ³	Chronic effects systemic		
Consumers	Inhalation	950 mg/m ³	Acute effects local		
Consumers	Dermal	206 mg/kg bw/day	Chronic effects systemic		
Consumers	Oral	87 mg/kg bw/day	Chronic effects systemic		

hydrocarbons, C9, aromatics					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Consumers	Inhalation	32 mg/kg	Chronic effects systemic		
Workers	Inhalation	151 mg/m ³	Chronic effects systemic		
Workers	Dermal	12.5 mg/kg bw/day	Chronic effects systemic		
Consumers	Dermal	7.5 mg/kg bw/day	Chronic effects systemic		
Consumers	Oral	7.5 mg/kg bw/day	Chronic effects systemic		

maleic anhydride					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	81 µg/m ³	Chronic effects systemic		
Workers	Inhalation	200 µg/m ³	Acute effects systemic		
Workers	Inhalation	81 µg/m ³	Chronic effects local		
Workers	Inhalation	200 µg/m ³	Acute effects local		
Consumers	Inhalation	50 µg/m ³	Chronic effects systemic		
Consumers	Inhalation	80 µg/m ³	Chronic effects local		
Workers	Dermal	200 µg/kg bw/24h	Chronic effects systemic		
Workers	Dermal	200 µg/kg bw/24h	Acute effects systemic		
Consumers	Dermal	100 µg/kg bw/24h	Chronic effects systemic		
Consumers	Dermal	100 µg/kg bw/24h	Acute effects systemic		
Consumers	Oral	60 µg/kg bw/24h	Chronic effects systemic		
Consumers	Oral	100 µg/kg bw/24h	Acute effects systemic		

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

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	3.6 mg/m ³	Chronic effects systemic		
Workers	Dermal	1 mg/kg bw/day	Chronic effects systemic		
Consumers	Inhalation	0.87 mg/m ³	Chronic effects systemic		
Consumers	Dermal	0.5 mg/kg bw/day	Chronic effects systemic		
Consumers	Oral	0.5 mg/kg bw/day	Chronic effects systemic		

xylene (mixture of isomers and ethylbenzene)

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	221 mg/m ³	Chronic effects systemic		
Workers	Inhalation	442 mg/m ³	Acute effects systemic		
Workers	Inhalation	442 mg/m ³	Acute effects local		
Workers	Dermal	212 mg/kg bw/day	Chronic effects systemic		
Consumers	Inhalation	65.3 mg/m ³	Chronic effects systemic		
Consumers	Inhalation	260 mg/m ³	Acute effects systemic		
Consumers	Inhalation	260 mg/m ³	Acute effects local		
Consumers	Dermal	125 mg/kg bw/day	Chronic effects systemic		
Consumers	Oral	12.5 mg/kg bw/day	Chronic effects systemic		
Workers	Inhalation	221 mg/m ³	Chronic effects local		
Consumers	Inhalation	65.3 mg/m ³	Chronic effects local		

PNEC
2-methoxy-1-methylethyl acetate

Route of exposure	Value	Value determination	Source
Freshwater environment	0.635 mg/l		
Marine water	0.0635 mg/l		
Water (intermittent release)	6.35 mg/l		
Microorganisms in sewage treatment	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		

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2-methoxy-1-methylethyl acetate

Route of exposure	Value	Value determination	Source
Soil (agricultural)	0.29 mg/kg of dry substance of soil		

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

Route of exposure	Value	Value determination	Source
Microorganisms in sewage treatment	10 mg/l		
Freshwater environment	6 µg/l		
Freshwater sediment	0.996 mg/kg of dry substance of sediment		
Marine water	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	Value determination	Source
Freshwater environment	0.96 mg/l		
Marine water	0.79 mg/l		
Water (intermittent release)	2.75 mg/l		
Microorganisms in sewage treatment	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		

maleic anhydride

Route of exposure	Value	Value determination	Source
Freshwater environment	37.9-75 µg/l		
Marine water	3.79-7.5 µg/l		
Water (intermittent release)	379-750 µg/l		
Seawater (intermittent release)	37.9 µg/l		

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maleic anhydride			
Route of exposure	Value	Value determination	Source
Microorganisms in sewage treatment	4.46-44.6 mg/l		
Freshwater sediment	60-296 µg/kg of dry substance		
Sea sediments	6-29.6 µg/kg of dry substance		
Soil (agricultural)	10-36.9 µg/kg of dry substance		
Food chain	6.67 mg/kg of food		

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.			
Route of exposure	Value	Value determination	Source
Freshwater environment	105.8 µg/l		
Marine water	10.58 µg/l		
Microorganisms in sewage treatment	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		

xylene (mixture of isomers and ethylbenzene)			
Route of exposure	Value	Value determination	Source
Marine water	0.327 mg/l		
Water (intermittent release)	0.327 mg/l		
Microorganisms in sewage treatment	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		
Freshwater environment	0.327 mg/l		

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8.2. Exposure controls

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

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. 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.

More information

In the Czech Republic: The monitoring procedure for the content of substances in workplace air and the specification of protective equipment is determined by the worker responsible for occupational safety and health protection of workers. Legal and natural persons doing business have the obligation to measure and control the values of concentrations of substances in the atmosphere of workplaces and to classify workplaces according to the categorization of work.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	white, red, blue, orange, grey, green, yellow
Odour	characteristic
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
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	non-soluble (in water)
Kinematic viscosity	>20.5 mm ² /s at 40 °C
Solubility in water	data not available
Solubility in fats	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available

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Density and/or relative density	
Density	1.3-1.4 g/cm ³ at 23 °C (hardened mixture)
Relative vapour density	data not available
Particle characteristics	data not available
9.2. Other information	
Evaporation rate	data not available
Oxidising properties	The product has no oxidizing properties.
Explosive properties	The product does not have explosive properties.
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 % volume (hardened mixture)
VOC limit value	cat. A (j) 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.

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

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. No toxicological data is available for the mixture.

Acute toxicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

2-methoxy-1-methylethyl acetate						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀		>5000 mg/kg		Rat (<i>Rattus norvegicus</i>)	

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2-methoxy-1-methylethyl acetate

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

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

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀		15000 mg/kg		Rat (Rattus norvegicus)	F
Dermal	LD ₅₀		23000 mg/kg		Rat (Rattus norvegicus)	F/M

ethanol

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

hydrocarbons, C9, aromatics

Route of exposure	Parameter	Method	Value	Exposure time	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 hours	Rat (Rattus norvegicus)	

maleic anhydride

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀		1090 mg/kg bw		Rat (Rattus norvegicus)	
Dermal	LD ₅₀		2620 mg/kg bw		Rabbit	

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

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀		30.1 ml/kg bw		Rat (Rattus norvegicus)	
Inhalation	LC ₀		0.15 mg/l	7 hours	Rat (Rattus norvegicus)	
Dermal	LD ₀		4.5 ml/kg bw		Rabbit	

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xylene (mixture of isomers and ethylbenzene)

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀	EU B.1	3523 mg/kg bw		Rat (Rattus norvegicus)	M
Dermal	LD ₅₀		12126 mg/kg bw		Rabbit	
Inhalation (vapor)	LC ₅₀		6350-6700 ppm	4 hours	Rat (Rattus norvegicus)	M

Skin corrosion/irritation

Causes skin irritation. Data for the components of the mixture are not available.

Serious eye damage/irritation

Causes serious eye irritation. Data for the components of the mixture are not available.

Respiratory or skin sensitisation

May cause an allergic skin reaction. Data for the components of the mixture are not available.

Germ cell mutagenicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Carcinogenicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Reproductive toxicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Toxicity for specific target organ - single exposure

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Toxicity for specific target organ - repeated exposure

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Aspiration hazard

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

11.2. Information on 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.

according to Commission Regulation (EU) 2020/878 as amended

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SECTION 12: Ecological information

12.1. 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.

Acute toxicity

2-methoxy-1-methylethyl acetate				
Parameter	Value	Exposure time	Species	Environment
LC ₅₀	134 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EC ₅₀	408 mg/l	48 hours	Daphnia (Daphnia magna)	
ErC ₅₀	>1000 mg/l	96 hours	Algae and other aquatic plants	

bis-[4-(2,3-epoxipropoxy)phenyl]propane				
Parameter	Value	Exposure time	Species	Environment
LC ₅₀	2 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EC ₅₀	1.8 mg/l	48 hours	Invertebrates (Daphnia magna)	
ErC ₅₀	11 mg/l	72 hours	Algae (Selenastrum capricornutum)	

ethanol				
Parameter	Value	Exposure time	Species	Environment
LC ₅₀	8140 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EC ₅₀	9248 mg/l	48 hours	Daphnia (Daphnia magna)	
EC ₅₀	5000 mg/l	72 hours	Algae (Selenastrum capricornutum)	

hydrocarbons, C9, aromatics				
Parameter	Value	Exposure time	Species	Environment
LL ₅₀	9.2 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EL ₅₀	3.2 mg/l	48 hours	Daphnia (Daphnia magna)	
ErL ₅₀	2.9 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	

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maleic anhydride				
Parameter	Value	Exposure time	Species	Environment
LC ₅₀	75 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EC ₅₀	42.81 mg/l	48 hours	Daphnia (Daphnia magna)	
ErC ₅₀	74.35 mg/l	72 hours	Algae and other aquatic plants (Pseudokirchneriella subcapitata)	

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.				
Parameter	Value	Exposure time	Species	Environment
LL ₅₀	>100 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EC ₅₀	7.2 mg/l	48 hours	Aquatic invertebrates (Daphnia magna)	
IC ₅₀	843.75 mg/l	72 hours	Algae and other aquatic plants (Pseudokirchneriella subcapitata)	
EC ₅₀	>100 mg/l	3 hours	Microorganisms (Photobacterium phosphoreum)	Activated sludge

xylene (mixture of isomers and ethylbenzene)				
Parameter	Value	Exposure time	Species	Environment
LC ₅₀	2.6 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EC ₅₀	1 mg/l	48 hours	Daphnia (Daphnia magna)	
LC ₅₀	2.2 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	

Chronic toxicity

xylene (mixture of isomers and ethylbenzene)				
Parameter	Value	Exposure time	Species	Environment
NOEC	>1.3 mg/l	56 days	Fish (Oncorhynchus mykiss)	
NOEC	0.96-1.17 mg/l	7 days	Invertebrates (Ceriodaphnia dubia)	

12.2. Persistence and degradability

Data for mixture not available.

according to Commission Regulation (EU) 2020/878 as amended

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Biodegradability

bis-[4-(2,3-epoxipropoxy)phenyl]propane					
Parameter	Method	Value	Exposure time	Environment	Result
		6-12 %	28 days		Hardly biodegradable

hydrocarbons, C9, aromatics					
Parameter	Method	Value	Exposure time	Environment	Result
					Easily biodegradable

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.					
Parameter	Method	Value	Exposure time	Environment	Result
		87 %	28 days		Biodegradable

xylene (mixture of isomers and ethylbenzene)					
Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301F	>90 %	28 days		Easily biodegradable

12.3. Bioaccumulative potential

Data for mixture not available.

2-methoxy-1-methylethyl acetate					
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
BCF	<100				
Log Pow	<3				

bis-[4-(2,3-epoxipropoxy)phenyl]propane					
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
BCF	31				
Log Pow	3.242				25°C

maleic anhydride					
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow	-2.61				19,8°C

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.					
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
BCF	263				
Log Pow	6				20°C

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xylene (mixture of isomers and ethylbenzene)

Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow	3.12-3.2				
BCF	6-23.4				

12.4. Mobility in soil

Not available.

2-methoxy-1-methylethyl acetate

Parameter	Value	Environment	Temperature
Koc	1.7		

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

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

xylene (mixture of isomers and ethylbenzene)

Parameter	Value	Environment	Temperature
Koc	48-540		

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 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.

12.7. Other adverse effects

Possible impacts on the waste water treatment plant: the concentration of this substance in the waste water to be treated must be in a controlled mode in accordance with the sewage regulations. The mixture may contaminate soil and water and may damage the fauna and flora. According to the Water Management Act, Act No. 254/2001 Coll., The product is considered a dangerous substance and a dangerous substance according to Annex No. 1 of the Water Management Act. Prevent substance from entering groundwater, soil and sewage system.

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.

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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

14.4. Packing group

III

14.5. Environmental hazards

The product is dangerous for the environment.

14.6. Special precautions for user

Reference in the Sections 4 to 8. The product is transported in ordinary and covered means of transport, protected against the weather, shocks and falls.

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



Tunnel restriction code

(-)

Air transport - ICAO/IATA

Packaging instructions passenger

964

Cargo packaging instructions

964

Marine transport - IMDG

EmS (emergency plan)

F-A, S-F

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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 as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

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.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H372	Causes damage to the respiratory system through prolonged or repeated exposure if inhaled.
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

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/protective clothing/eye protection.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container to be handing over to the person authorized to dispose of waste or by returning to the supplier.

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

EUH066	Repeated exposure may cause skin dryness or cracking.
EUH071	Corrosive to the respiratory tract.

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.

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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
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
EL ₅₀	Effective Loading for 50% of the tested organisms
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 ₅₀	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₀	Lethal concentration of a substance in which it can be expected death of 0% of the population
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₀	Lethal dose of a substance in which it can be expected death of 0% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
LL ₅₀	Lethal Loading for 50% of tested organisms
log K _{ow}	Octanol-water partition coefficient
NOEC	No observed effect concentration
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
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
Acute Tox.	Acute toxicity
Aquatic Chronic	Hazardous to the aquatic environment (chronic)

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Asp. Tox.	Aspiration hazard
Eye Dam.	Serious eye damage
Flam. Liq.	Flammable liquid
Resp. Sens.	Respiratory sensitization
Skin Corr.	Skin corrosion
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

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 4.0 replaces the SDS version from 2 April 2019. Overall revision of SDS.

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.