

SAFETY DATA SHEET



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

Nexler EPOLIS EP-300 składnik A

Creation date	18th December 2020	Version	2.3
Revision date	24th May 2024		

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

1.1. Product identifier
Substance / mixture Nexler EPOLIS EP-300 składnik A
mixture
UFI G4TJ-W0HN-700Y-U03Q
Other mixture names
Nexler EPOLIS EP-300 component A

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

Mixture's intended use

The product is a two-component, epoxy-mineral, colored floor compound, used as the base and top layer of industrial seamless floors in various flooring systems.

Main intended use

PC-CON-5 Construction chemicals

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

Supplier

Name or trade name	NEXLER sp. z o.o.
Address	Łużycka 6, Gdynia, 81-537 Poland
Identification number (CRN)	191528483
VAT Reg No	PL5862073821
Phone	+48 58 781 45 85
E-mail	info@nexler.com
Web address	www.nexler.com

Competent person responsible for the safety data sheet

Name	NEXLER sp. z o.o.
E-mail	info@nexler.com

1.4. Emergency telephone number

National Health Service (NHS) 111
National poisoning information centre Scotland, NHS 24: 111

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

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.

2.2. Label elements

Hazard pictogram



Signal word

Warning

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Hazardous substances

bis[4-(2,3-epoxypropoxy)phenyl]propane
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
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.
P280 Wear protective gloves/protective clothing/eye protection/face 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.
P391 Collect spillage.
P501 Dispose of contents/container to according to the instructions of the manufacturer or person authorized to dispose of waste.

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.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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-epoxypropoxy)phenyl]propane	22-26	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411 Specific concentration limit: Skin Irrit. 2, H315; 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.	4-7	Skin Irrit. 2, H315 Skin Sens. 1, H317	3
CAS: 9003-36-5 EC: 701-263-0 Registration number: 01-2119454392-40	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	4-7	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411	
Index: 603-057-00-5 CAS: 100-51-6 EC: 202-859-9 Registration number: 01-2119492630-38	benzyl alcohol	1,5-1,8	Acute Tox. 4, H302+H332 Eye Irrit. 2, H319	

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 606-004-00-4 CAS: 108-10-1 EC: 203-550-1 Registration number: 01-2119473980-30	4-methylpentan-2-one	<0,32	Flam. Liq. 2, H225 Eye Irrit. 2, H319 Acute Tox. 4, H332 STOT SE 3, H336 Carc. 2, H351 EUH066 Specific concentration limit: ATE Inhalation (vapor) = 11 mg/l	1, 2
CAS: 64742-95-6 EC: 918-668-5 Registration number: 01-2119455851-35	Hydrocarbons, C9, aromatics	<0,16	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H335, H336 Aquatic Chronic 2, H411 EUH066	1, 3
EC: 905-588-0 Registration number: 01-2119488216-32	reaction mass of ethylbenzene and xylene	<0,16	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, 2
Index: 607-195-00-7 CAS: 108-65-6 EC: 203-603-9 Registration number: 01-2119475791-29	2-methoxy-1-methylethyl acetate	<0,077	Flam. Liq. 3, H226 STOT SE 3, H336	1
Index: 606-005-00-X CAS: 108-83-8 EC: 203-620-1 Registration number: 01-2119474441-41	2,6-dimethylheptan-4-one	<0,066	Flam. Liq. 3, H226 STOT SE 3, H335 Specific concentration limit: STOT SE 3, H335: C ≥ 10 %	1
Index: 607-096-00-9 CAS: 108-31-6 EC: 203-571-6 Registration number: 01-2119472428-31	maleic anhydride	<0,00025	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 %	1

Notes

- 1 A substance for which exposure limits are set.
- 2 Substance for which biological limit values exist.
- 3 Substance of unknown or variable composition, complex reaction products or biological materials - UVCB.

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.

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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.

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

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. Do not allow to enter drains.

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

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Prevent contact with skin and eyes. Contaminated work clothing should not be allowed out of the workplace. Wash hands and exposed parts of the body thoroughly after handling. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Storage temperature required between +10 ° C and +25 ° C.

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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

United Kingdom EH40/2005 Workplace exposure limits (Fourth Edition 2020)

Substance name (component)	Type	Value	Note
4-methylpentan-2-one (CAS: 108-10-1)	WEL 8h	208 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 8h	50 ppm	
	WEL 15min	416 mg/m ³	
	WEL 15min	100 ppm	
trimethylbenzene (CAS: 64742-95-6)	WEL 8h	125 mg/m ³	
	WEL 8h	25 ppm	
Xylene, o-,m-,p- or mixed isomers	WEL 8h	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.
	WEL 8h	50 ppm	

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United Kingdom

EH40/2005 Workplace exposure limits (Fourth Edition 2020)

Substance name (component)	Type	Value	Note
Xylene, o-,m-,p- or mixed isomers	WEL 15min	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 15min	100 ppm	
ethylbenzene	WEL 8h	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 8h	100 ppm	
	WEL 15min	552 mg/m ³	
	WEL 15min	125 ppm	
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	WEL 8h	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.
	WEL 8h	50 ppm	
	WEL 15min	548 mg/m ³	

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United Kingdom EH40/2005 Workplace exposure limits (Fourth Edition 2020)

Substance name (component)	Type	Value	Note
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	WEL 15min	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.
2,6-dimethylheptan-4-one (CAS: 108-83-8)	WEL 8h	148 mg/m ³	
	WEL 8h	25 ppm	
maleic anhydride (CAS: 108-31-6)	WEL 8h	1 mg/m ³	Capable of causing occupational asthma.
	WEL 15min	3 mg/m ³	

Biological limit values

United Kingdom EH40/2005 Workplace exposure limits (Fourth Edition 2020)

Name	Parameter	Value	Tested material	Time of sampling
4-methylpentan-2-one (CAS: 108-10-1)	4-Methylpentan-2-one	20 µmol/l	Urine	End of shift
reaction mass of ethylbenzene and xylene	Methylhippuric acids	650 mmol/mol creatinine	Urine	End of shift

DNEL

2,6-dimethylheptan-4-one					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	53 mg/m ³	Chronic effects systemic		
Workers	Dermal	7.7 mg/kg bw/day	Chronic effects systemic		

2-methoxy-1-methylethyl acetate					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Dermal	796 mg/kg bw/day	Chronic effects systemic		
Workers	Inhalation	275 mg/m ³	Chronic effects systemic		
Workers	Inhalation	550 mg/m ³	Acute effects local		
Consumers	Oral	36 mg/kg bw/day	Chronic effects systemic		
Consumers	Oral	500 mg/kg bw/day	Acute effects systemic		
Consumers	Dermal	320 mg/kg bw/day	Chronic effects systemic		
Consumers	Inhalation	33 mg/m ³	Chronic effects systemic		
Consumers	Inhalation	33 mg/m ³	Chronic effects local		

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4-methylpentan-2-one					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	83 mg/m ³	Chronic effects systemic		
Workers	Inhalation	208 mg/m ³	Acute effects systemic		
Workers	Inhalation	83 mg/m ³	Chronic effects local		
Workers	Inhalation	208 mg/m ³	Acute effects local		
Workers	Dermal	11.8 mg/kg bw/day	Chronic effects systemic		
Consumers	Inhalation	14.7 mg/m ³	Chronic effects systemic		
Consumers	Inhalation	155.2 mg/m ³	Acute effects systemic		
Consumers	Inhalation	14.7 mg/m ³	Chronic effects local		
Consumers	Inhalation	155.2 mg/m ³	Acute effects local		
Consumers	Dermal	4.2 mg/kg bw/day	Chronic effects systemic		
Consumers	Oral	4.2 mg/kg bw/day	Chronic effects systemic		

benzyl alcohol					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	22 mg/m ³	Chronic effects systemic		
Workers	Inhalation	110 mg/m ³	Acute effects systemic		
Workers	Dermal	8 mg/kg bw/day	Chronic effects systemic		
Workers	Dermal	40 mg/kg bw/day	Acute effects systemic		
Consumers	Inhalation	5.4 mg/m ³	Chronic effects systemic		
Consumers	Inhalation	27 mg/m ³	Acute effects systemic		
Consumers	Dermal	4 mg/kg bw/day	Chronic effects systemic		
Consumers	Dermal	20 mg/kg bw/day	Acute effects systemic		
Consumers	Oral	4 mg/kg bw/day	Chronic effects systemic		
Consumers	Oral	20 mg/kg bw/day	Acute effects systemic		

bis[4-(2,3-epoxypropoxy)phenyl]propane					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	4.93 mg/m ³	Chronic effects systemic		
Workers	Dermal	0.75 mg/kg bw/day	Chronic effects systemic		
Consumers	Inhalation	0.87 mg/m ³	Chronic effects systemic		
Consumers	Dermal	0.0893 mg/kg bw/day	Chronic effects systemic		
Consumers	Oral	0.5 mg/kg bw/day	Chronic effects systemic		

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Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Consumers	Oral	6.25 mg/kg bw/day	Chronic effects systemic		
Consumers	Dermal	62.5 mg/kg bw/day	Chronic effects systemic		
Workers	Dermal	104.15 mg/kg bw/day	Chronic effects systemic		
Consumers	Inhalation	8.7 mg/m ³	Chronic effects systemic		
Workers	Inhalation	29.39 mg/m ³	Chronic effects systemic		

Hydrocarbons, C9, aromatics

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Dermal	12.5 mg/kg bw/day	Chronic effects systemic		
Workers	Inhalation	151 mg/m ³	Chronic effects systemic		
Consumers	Dermal	7.5 mg/kg bw/day	Chronic effects systemic		
Consumers	Inhalation	32 mg/m ³	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	0.081 mg/m ³	Chronic effects systemic		
Workers	Inhalation	0.2 mg/m ³	Acute effects systemic		
Workers	Inhalation	0.081 mg/m ³	Chronic effects local		
Workers	Inhalation	0.2 mg/m ³	Acute effects local		

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

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

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reaction mass of ethylbenzene and xylene

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

DMEL

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Dermal	8.3 µg/cm ²	Acute effects local		

PNEC

2,6-dimethylheptan-4-one

Route of exposure	Value	Value determination	Source
Drinking water	0.03 mg/l		
Marine water	0.003 mg/l		
Water (intermittent release)	0.3 mg/l		
Microorganisms in sewage treatment	2.55 mg/l		
Freshwater sediment	0.46 mg/kg of dry substance of sediment		
Sea sediments	0.046 mg/kg of dry substance of sediment		
Soil (agricultural)	0.075 mg/kg of dry substance of soil		

2-methoxy-1-methylethyl acetate

Route of exposure	Value	Value determination	Source
Drinking water	0.635 mg/l		
Marine water	0.064 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		
Microorganisms in sewage treatment	100 mg/l		
Water (intermittent release)	6.35 mg/l		

4-methylpentan-2-one			
Route of exposure	Value	Value determination	Source
Drinking water	0.6 mg/l		
Water (intermittent release)	1.5 mg/l		
Marine water	0.06 mg/l		
Microorganisms in sewage treatment	27.5 mg/l		
Freshwater sediment	8.27 mg/kg of dry substance of sediment		
Sea sediments	0.83 mg/kg of dry substance of sediment		
Soil (agricultural)	1.3 mg/kg of dry substance of soil		

benzyl alcohol			
Route of exposure	Value	Value determination	Source
Drinking water	1 mg/l		
Marine water	0.1 mg/l		
Water (intermittent release)	2.3 mg/l		
Microorganisms in sewage treatment	39 mg/l		
Freshwater sediment	5.27 mg/kg of dry substance of sediment		
Sea sediments	0.527 mg/kg of dry substance of sediment		
Soil (agricultural)	0.456 mg/kg of dry substance of soil		

bis[4-(2,3-epoxypropoxy)phenyl]propane			
Route of exposure	Value	Value determination	Source
Drinking water	0.006 mg/l		
Water (intermittent release)	0.018 mg/l		
Marine water	0.001 mg/l		
Microorganisms in sewage treatment	10 mg/l		
Freshwater sediment	0.341 mg/kg of dry substance of sediment		
Sea sediments	0.034 mg/kg of dry substance of sediment		

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

Route of exposure	Value	Value determination	Source
Soil (agricultural)	0.065 mg/kg of dry substance of soil		
Food chain	11 mg/kg of food		

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

Route of exposure	Value	Value determination	Source
Drinking water	0.003 mg/l		
Marine water	0 mg/l		
Freshwater sediment	0.294 mg/kg		
Sea sediments	0.029 mg/kg		
Soil (agricultural)	0.237 mg/kg of dry substance of soil		
Microorganisms in sewage treatment	10 mg/l		
Water (intermittent release)	0.025 mg/l		

maleic anhydride

Route of exposure	Value	Value determination	Source
Drinking water	0.038 mg/l		
Water (intermittent release)	0.379 mg/l		
Marine water	0.004 mg/l		
Microorganisms in sewage treatment	44.6 mg/l		
Freshwater sediment	0.296 mg/kg of dry substance of sediment		
Sea sediments	0.03 mg/kg of dry substance of sediment		
Soil (agricultural)	0.037 mg/kg of dry substance of soil		

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

Route of exposure	Value	Value determination	Source
Drinking water	0.106 mg/l		
Marine water	0.011 mg/l		
Water (intermittent release)	0.072 mg/l		
Freshwater sediment	307.16 mg/kg of dry substance of sediment		
Sea sediments	30.72 mg/kg of dry substance of sediment		
Microorganisms in sewage treatment	10 mg/l		
Soil (agricultural)	1.234 mg/kg of dry substance of soil		

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reaction mass of ethylbenzene and xylene			
Route of exposure	Value	Value determination	Source
Drinking water	0.327 mg/l		
Marine water	0.327 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		
Water (intermittent release)	0.327 mg/l		
Microorganisms in sewage treatment	6.58 mg/l		

8.2. Exposure controls

Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles.

Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

Respiratory protection

It is not needed. In case of inadequate ventilation wear respiratory protection.

Thermal hazard

Data not available.

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	According to the offer
Odour	characteristic
Melting point/freezing point	-8 °C
Boiling point or initial boiling point and boiling range	>200 °C
Flammability	the product is not flammable
Lower and upper explosion limit	not applicable
Flash point	87 °C
Auto-ignition temperature	not determined
benzyl alcohol (CAS: 100-51-6)	436 °C
Hydrocarbons, C9, aromatics (CAS: 64742-95-6)	>400 °C
reaction mass of ethylbenzene and xylene	432-528 °C
Decomposition temperature	not applicable
pH	non-soluble (in water)
Kinematic viscosity	3200 mm ² /s at 20 °C
Solubility in water	almost insoluble
Solubility in other solvents	dissolves in most organic solvents
Partition coefficient n-octanol/water (log value)	does not apply to mixtures
Vapour pressure	not determined

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4-methylpentan-2-one (CAS: 108-10-1) 26.4 hPa at 25 °C
benzyl alcohol (CAS: 100-51-6) 0.07 hPa at 20 °C
Hydrocarbons, C9, aromatics (CAS: 64742-95-6) 2 hPa at 20 °C
oxirane, mono[(C12-14-alkyloxy)methyl] derivs. (CAS: 68609-97-2) 0.00018 hPa at 20 °C
reaction mass of ethylbenzene and xylene 6.5-9.5 hPa at 20 °C
Density and/or relative density
Density 1.84 g/cm³
Relative vapour density >1
Particle characteristics applies to solids

9.2. Other information

not available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with amines, amides.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

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.

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

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

2,6-dimethylheptan-4-one						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀	OECD 401	>2000 mg/kg bw		Rat (<i>Rattus norvegicus</i>)	F/M
Inhalation (vapor)	LC ₅₀	OECD 403	>14.5 mg/l of air	4 hours	Guinea-pig (<i>Cavia aperea f. porcellus</i>)	
Dermal	LD ₅₀	OECD 402	>2000 mg/kg bw		Rat (<i>Rattus norvegicus</i>)	F/M

2-methoxy-1-methylethyl acetate						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Dermal	LD ₅₀	OECD 402	>5000 mg/kg bw		Rat (<i>Rattus norvegicus</i>)	F/M
Oral	LD ₅₀	OECD 401	6190 mg/kg bw		Rat (<i>Rattus norvegicus</i>)	F/M

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4-methylpentan-2-one						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀	OECD 401	2080 mg/kg bw		Rat (<i>Rattus norvegicus</i>)	
Inhalation	LC ₅₀	OECD 403	11.6 mg/l of air	4 hours	Rat (<i>Rattus norvegicus</i>)	M
Dermal	LD ₅₀	OECD 402	>2000 mg/kg bw	24 hours	Rat (<i>Rattus norvegicus</i>)	F/M
Inhalation (vapor)	ATE		11 mg/l			

benzyl alcohol						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀		1620 mg/kg bw		Rat (<i>Rattus norvegicus</i>)	M
Inhalation	LD ₅₀	OECD 403	>4.178 mg/l of air	4 hours	Rat (<i>Rattus norvegicus</i>)	F/M
Dermal	LD ₅₀	EPA OTS 798.1100	>2000 mg/kg bw	24 hours	Rabbit	F/M

bis[4-(2,3-epoxypropoxy)phenyl]propane						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀		>15000 mg/kg bw		Rat (<i>Rattus norvegicus</i>)	M
Dermal	LD ₅₀		>23000 mg/kg bw	24 hours	Rabbit	

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀	OECD 401	>5000 mg/kg bw		Rat (<i>Rattus norvegicus</i>)	F/M
Dermal	LD ₅₀	OECD 402	>2000 mg/kg bw		Rat (<i>Rattus norvegicus</i>)	F/M

Hydrocarbons, C9, aromatics						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Dermal	LD ₅₀	OECD 402	>3160 mg/kg bw	24 hours	Rabbit	F/M
Inhalation (vapor)	LC ₅₀	OECD 403	>6193 mg/m ³	4 hours	Rat (<i>Rattus norvegicus</i>)	F/M
Oral	LD ₅₀		>3492 mg/kg bw		Rat (<i>Rattus norvegicus</i>)	F/M

maleic anhydride						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀	OECD 401	1090 mg/kg bw		Rat (<i>Rattus norvegicus</i>)	F/M
Dermal	LD ₅₀		2620 mg/kg bw	24 hours	Rabbit	F

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀		26800 mg/kg bw		Rat (<i>Rattus norvegicus</i>)	

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oxirane, mono[(C12-14-alkyloxy)methyl] derivs.						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Inhalation	LC ₅₀		>0.15 mg/l of air	7 hours	Rat (Rattus norvegicus)	
Dermal	LD ₅₀		>4000 mg/kg bw		Rabbit	

reaction mass of ethylbenzene and xylene						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀	EU B.1	3523 mg/kg bw		Rat	M
Inhalation (vapor)	LC ₅₀	EU B.2	27124 mg/m ³	4 hours	Rat	M
Skin	LD ₅₀		12126 mg/kg bw		Rabbit	M

Skin corrosion/irritation

Causes skin irritation.

benzyl alcohol					
Route of exposure	Result	Method	Exposure time	Species	
Dermal	Slightly irritating	OECD 404	4 hours	Rabbit	

bis[4-(2,3-epoxypropoxy)phenyl]propane					
Route of exposure	Result	Method	Exposure time	Species	
Dermal	Slightly irritating	OECD 404	4 hours	Rabbit	

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol					
Route of exposure	Result	Method	Exposure time	Species	
Dermal	Slightly irritating	OECD 404	4 hours	Rabbit	

Hydrocarbons, C9, aromatics					
Route of exposure	Result	Method	Exposure time	Species	
Dermal	Slightly irritating	OECD 404		Rabbit	

maleic anhydride					
Route of exposure	Result	Method	Exposure time	Species	
Dermal	Corrosive	OECD 404	4 hours	Rabbit	

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.					
Route of exposure	Result	Method	Exposure time	Species	
Dermal	Irritating				

reaction mass of ethylbenzene and xylene					
Route of exposure	Result	Method	Exposure time	Species	
Dermal	Irritating	EU B.4	4 hours	Rabbit	

Irritation

2,6-dimethylheptan-4-one					
Route of exposure	Result	Exposure time	Species		
Inhalation	Irritating				

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reaction mass of ethylbenzene and xylene

Route of exposure	Result	Exposure time	Species
Inhalation	Irritating		

Serious eye damage/irritation

Causes serious eye irritation.

4-methylpentan-2-one

Route of exposure	Result	Method	Exposure time	Species
Eye	Slightly irritating	OECD 405		Rabbit

benzyl alcohol

Route of exposure	Result	Method	Exposure time	Species
Eye	Irritating	OECD 405	24 hours	Rabbit

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

Route of exposure	Result	Method	Exposure time	Species
Eye	Slightly irritating	OECD 405		Rabbit

maleic anhydride

Route of exposure	Result	Method	Exposure time	Species
Eye	Serious eye damage	OECD 405		Rabbit

reaction mass of ethylbenzene and xylene

Route of exposure	Result	Method	Exposure time	Species
Eye	Irritating			Rabbit

Respiratory or skin sensitisation

May cause an allergic skin reaction.

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

Route of exposure	Result	Method	Exposure time	Species	Sex
Dermal	Sensitizing	OECD 429		Mouse	F

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

Route of exposure	Result	Method	Exposure time	Species	Sex
Dermal	Sensitizing	OECD 429		Mouse	F

maleic anhydride

Route of exposure	Result	Method	Exposure time	Species	Sex
Dermal	Sensitizing	OECD 429		Mouse	F
Inhalation	Sensitizing			Rat (<i>Rattus norvegicus</i>)	F/M

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

Route of exposure	Result	Method	Exposure time	Species	Sex
Dermal	Sensitizing				

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Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

Toxicity for specific target organ - single exposure

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

Toxicity for specific target organ - repeated exposure

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

Repeated dose toxicity

2,6-dimethylheptan-4-one							
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	NOAEL	Systemic effects	OECD 408	2000 mg/kg bw/day	90 days	Rat (Rattus norvegicus)	M
Inhalation (vapor)	NOAEC	Systemic effects	OECD 412	2650 mg/m ³	6 weeks	Rat (Rattus norvegicus)	F/M

2-methoxy-1-methylethyl acetate							
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	NOAEL	Systemic effects, Effects on fertility	OECD 422	1000 mg/kg bw/day	44 days	Rat (Rattus norvegicus)	F/M
Inhalation (vapor)	NOAEC	Systemic effects	OECD 453	1650 mg/m ³	2 years	Rat (Rattus norvegicus)	F/M
Inhalation (vapor)	LOAEC	Local effects	OECD 412	1650 mg/m ³	9 days	Rat (Rattus norvegicus)	F/M
Dermal	NOAEL	Systemic effects		2675 mg/kg bw/day	3 months	Rabbit	M

4-methylpentan-2-one							
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	NOAEL	Systemic effects	OECD 408	250 mg/kg bw/day	13 weeks	Rat (Rattus norvegicus)	F/M
Inhalation (vapor)	NOAEC	No carcinogenic effect, Systemic effects	OECD 451	1843 mg/m ³	2 years	Rat (Rattus norvegicus)	F/M

benzyl alcohol							
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	NOAEL	Systemic effects	OECD 451	400 mg/kg bw/day	103 weeks	Rat (Rattus norvegicus)	F/M
Inhalation (aerosols)	NOAEC	Local effects, Systemic effects	OECD 412	1072 mg/m ³ of air	4 weeks	Rat (Rattus norvegicus)	F/M

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

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	NOAEL	Systemic effects	OECD 408	50 mg/kg bw/day	14 weeks	Rat (Rattus norvegicus)	F/M
Dermal	NOAEL	Systemic effects	OECD 411	100 mg/kg bw/day	13 weeks	Mouse	F/M

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	NOAEL	Systemic effects	OECD 408	250 mg/kg bw/day	13 weeks	Rat (Rattus norvegicus)	F/M

Hydrocarbons, C9, aromatics

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	NOAEL	Systemic effects	OECD 408	600 mg/kg bw/day	90 days	Rat (Rattus norvegicus)	F/M
Inhalation (vapor)	NOAEC	Systemic effects	OECD 452	900 mg/m ³	1 year	Rat (Rattus norvegicus)	F

maleic anhydride

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	NOAEL	Systemic effects	OECD 409	60 mg/kg bw/day	90 days	Dog	F/M
Inhalation (vapor)	NOAEC	Systemic effects		3.3 mg/m ³	6 months	Rat (Rattus norvegicus)	F/M
Inhalation (vapor)	LOAEC	Local effects		1.1 mg/m ³	6 months	Rat (Rattus norvegicus)	F/M

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

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	NOAEL	Systemic effects	OECD 408	100 mg/kg bw/day	13 weeks	Rat (Rattus norvegicus)	F/M
Dermal	NOAEL	Systemic effects	OECD 411	100 mg/kg bw/day	13 weeks	Rat (Rattus norvegicus)	F/M

reaction mass of ethylbenzene and xylene

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	NOAEL	Systemic effects	EU B.32	250 mg/kg bw/day	103 weeks	Rat (Rattus norvegicus)	F/M
Inhalation (vapor)	NOAEC	Systemic effects		3515 mg/m ³	13 weeks	Dog	M

Aspiration hazard

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.

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

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Acute toxicity

2,6-dimethylheptan-4-one					
Parameter	Method	Value	Exposure time	Species	Environment
LC ₅₀	OECD 203	30 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EC ₅₀	OECD 202	37.2 mg/l	48 hours	Aquatic invertebrates (Daphnia magna)	
EC ₅₀	OECD 201	46.9 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	
IC ₅₀	OECD 209	255 mg/l	16 hours	Aquatic microorganisms	

2-methoxy-1-methylethyl acetate					
Parameter	Method	Value	Exposure time	Species	Environment
LC ₅₀	OECD 203	130 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EC ₅₀	OECD 201	>1000 mg/l	96 hours	Algae (Raphidocelis subcapitata)	
EC ₅₀	OECD 202	408 mg/l	48 hours	Aquatic invertebrates (Daphnia magna)	
NOEC	OECD 209	1000 mg/l	30 minutes	Aquatic microorganisms	Activated sludge

4-methylpentan-2-one					
Parameter	Method	Value	Exposure time	Species	Environment
LC ₅₀	OECD 203	>179 mg/l	96 hours	Fish (Danio rerio)	
EC ₅₀	OECD 202	>200 mg/l	48 hours	Aquatic invertebrates (Daphnia magna)	
EC ₅₀	OECD 221	>146 mg/l	7 days	Algae (Lemma gibba)	
EC ₅₀		275 mg/l	16 hours	Aquatic microorganisms (Pseudomonas putida)	

benzyl alcohol					
Parameter	Method	Value	Exposure time	Species	Environment
LC ₅₀	EPA OPP 72-1	460 mg/l	96 hours	Fish (Pimephales promelas)	
EC ₅₀	OECD 202	230 mg/l	48 hours	Aquatic invertebrates (Daphnia magna)	
EC ₅₀	OECD 201	770 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	
NOEC	OECD 201	310 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	
IC ₅₀		390 mg/l	24 hours	Aquatic microorganisms (Nitrosomonas)	

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bis[4-(2,3-epoxypropoxy)phenyl]propane					
Parameter	Method	Value	Exposure time	Species	Environment
LC ₅₀		2 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EC ₅₀		1.8 mg/l	48 hours	Aquatic invertebrates (Daphnia magna)	
ErC ₅₀		>11 mg/l	72 hours	Algae (Scenedesmus subspicatus)	
NOEC		4.2 mg/l	72 hours	Algae (Scenedesmus subspicatus)	
IC ₅₀		>100 mg/l	3 hours	Aquatic microorganisms	Activated sludge

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol					
Parameter	Method	Value	Exposure time	Species	Environment
LC ₅₀		2.54 mg/l	96 hours	Fish	
EC ₅₀		2.55 mg/l	48 hours	Aquatic invertebrates (Daphnia magna)	
EC ₅₀		1.8 mg/l	72 hours	Algae (Selenastrum capricornutum)	
EC ₅₀	OECD 201	1.8 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	
NOEC		100 mg/l	3 hours	Aquatic microorganisms	

Hydrocarbons, C9, aromatics					
Parameter	Method	Value	Exposure time	Species	Environment
ErL ₅₀	OECD 201	2.9 mg/l	72 hours	Algae (Raphidocelis subcapitata)	
EbL ₅₀	OECD 201	2.6 mg/l	72 hours	Algae (Raphidocelis subcapitata)	
EL ₅₀	OECD 202	3.2 mg/l	48 hours	Aquatic invertebrates (Daphnia magna)	
LL ₅₀	OECD 203	9.2 mg/l	96 hours	Fish (Oncorhynchus mykiss)	

maleic anhydride					
Parameter	Method	Value	Exposure time	Species	Environment
LC ₅₀		75 mg/l	96 hours	Fish (Lepomis macrochirus)	
EC ₅₀	OECD 202	37.9 mg/l	48 hours	Aquatic invertebrates (Daphnia magna)	
EC ₅₀	OECD 201	65.78 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	
NOEC	OECD 201	10.4 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	
NOEC		44.6 mg/l	18 hours	Aquatic microorganisms (Pseudomonas putida)	

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oxirane, mono[(C12-14-alkyloxy)methyl] derivs.					
Parameter	Method	Value	Exposure time	Species	Environment
LL ₅₀		>100 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
IC ₅₀	OECD 201	843.75 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	
EC ₅₀		>100 mg/l	180 minutes	Microorganisms (Photobacterium phosphoreum)	Activated sludge
EL ₅₀		7.2 mg/l	48 hours	Aquatic invertebrates (Daphnia magna)	
NOEC	OECD 201	500 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	

reaction mass of ethylbenzene and xylene					
Parameter	Method	Value	Exposure time	Species	Environment
LC ₅₀	OECD 203	2.6 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EC ₅₀	OECD 201	2.2 mg/l	73 hours	Algae (Pseudokirchneriella subcapitata)	
EC ₅₀	OECD 209	>157 mg/l	3 hours	Aquatic microorganisms	Activated sludge
NOEC	OECD 201	0.44 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	
IC ₅₀		220 mg/kg of dry substance of soil	10 hours	Microorganisms	
EC ₅₀	OECD 202	1 mg/l	24 hours	Aquatic invertebrates (Daphnia magna)	

Chronic toxicity

2-methoxy-1-methylethyl acetate					
Parameter	Method	Value	Exposure time	Species	Environment
NOEC	OECD 204	47.5 mg/l	14 days	Fish (Oryzias latipes)	
NOEC	OECD 211	≥100 mg/l	21 days	Aquatic invertebrates (Daphnia magna)	

4-methylpentan-2-one					
Parameter	Method	Value	Exposure time	Species	Environment
NOEC	OECD 211	30 mg/l	21 days	Aquatic invertebrates (Daphnia magna)	

benzyl alcohol					
Parameter	Method	Value	Exposure time	Species	Environment
NOEC	OECD 211	51 mg/l	21 days	Aquatic invertebrates (Daphnia magna)	

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bis[4-(2,3-epoxypropoxy)phenyl]propane					
Parameter	Method	Value	Exposure time	Species	Environment
NOEC		0.3 mg/l	21 days	Aquatic invertebrates (Daphnia magna)	

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol					
Parameter	Method	Value	Exposure time	Species	Environment
NOEC	OECD 211	0.3 mg/l	21 days	Aquatic invertebrates (Daphnia magna)	

Hydrocarbons, C9, aromatics					
Parameter	Method	Value	Exposure time	Species	Environment
NOELR		2.14 mg/l	21 days	Aquatic invertebrates (Daphnia magna)	
NOELR		1.23 mg/l	28 days	Fish (Oncorhynchus mykiss)	
NOEC	OECD 209	>99 mg/l	10 minutes	Aquatic microorganisms	Activated sludge

maleic anhydride					
Parameter	Method	Value	Exposure time	Species	Environment
NOEC		10 mg/l	21 days	Aquatic invertebrates (Daphnia magna)	

reaction mass of ethylbenzene and xylene					
Parameter	Method	Value	Exposure time	Species	Environment
NOEC		>1.3 mg/l	56 days	Fish (Salmo gairdneri)	
NOEC		0.96 mg/l	7 days	Aquatic invertebrates (Ceriodaphnia dubia)	
NOEC	OECD 301F	16 mg/l	28 days	Aquatic microorganisms	Activated sludge
NOEC		16 mg/kg of dry substance of soil	14 weeks	Invertebrates (Eisenia andrei)	

12.2. Persistence and degradability

The product is not biodegradable to the extent significant for the natural environment.

Biodegradability

2,6-dimethylheptan-4-one					
Parameter	Method	Value	Exposure time	Environment	Result
ThOD	OECD 301D	88 %	20 days		Easily biodegradable

2-methoxy-1-methylethyl acetate					
Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301F	90 %	28 days		Easily biodegradable

4-methylpentan-2-one					
Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301F	83 %	28 days		Easily biodegradable

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benzyl alcohol					
Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301A	95-97 %	21 days		Easily biodegradable

bis[4-(2,3-epoxypropoxy)phenyl]propane					
Parameter	Method	Value	Exposure time	Environment	Result
					Hardly biodegradable

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol					
Parameter	Method	Value	Exposure time	Environment	Result
					Hardly biodegradable

Hydrocarbons, C9, aromatics					
Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301F	78 %	28 days		Easily biodegradable

maleic anhydride					
Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301B	>90 %	28 days		Easily biodegradable

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.					
Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301F	87 %	28 days		Easily biodegradable

reaction mass of ethylbenzene and xylene					
Parameter	Method	Value	Exposure time	Environment	Result
					Easily biodegradable

12.3. Bioaccumulative potential

Bioaccumulation is not expected.

2,6-dimethylheptan-4-one							
Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]	Value determination
Log Pow	OECD 117	3.71				20°C	

2-methoxy-1-methylethyl acetate							
Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]	Value determination
Log Pow	OECD 117	1.2				20°C	

4-methylpentan-2-one							
Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]	Value determination
Log Kow	OECD 117	1.9				20°C	

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benzyl alcohol							
Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]	Value determination
Log Pow		1.05				20°C	

bis[4-(2,3-epoxypropoxy)phenyl]propane							
Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]	Value determination
Log Pow	OECD 117	3.242				25°C	

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol							
Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]	Value determination
Log Pow	OECD 117	3.6				20°C	

Hydrocarbons, C9, aromatics							
Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]	Value determination
Log Pow		3.03 ≤ ... ≤ 4.73					QSAR

maleic anhydride							
Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]	Value determination
Log Pow	OECD 107	-2.61				19,8°C	

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.							
Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]	Value determination
BCF		160		Fish			
Log Pow	OECD 107	3.77				20°C	

reaction mass of ethylbenzene and xylene							
Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]	Value determination
BCF		25.9					
Log Pow		3.16				20°C	

12.4. Mobility in soil

The product is insoluble in water and does not show mobility in soil.

2,6-dimethylheptan-4-one				
Parameter	Method	Value	Environment	Temperature
Koc	OECD 121	117		25°C

benzyl alcohol				
Parameter	Method	Value	Environment	Temperature
Koc		15.7		20°C

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

Parameter	Method	Value	Environment	Temperature
Koc		445		20°C

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

Parameter	Method	Value	Environment	Temperature
Koc	OECD 121	4460		

maleic anhydride

Parameter	Method	Value	Environment	Temperature
Koc		42		

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

Parameter	Method	Value	Environment	Temperature
Log Koc		>5.63		20°C

reaction mass of ethylbenzene and xylene

Parameter	Method	Value	Environment	Temperature
Log Koc	OECD 121	2.73		

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

Data not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Danger of environmental contamination, follow the applicable waste disposal regulations. Store unused product and contaminated packaging in closed containers for waste collection and hand over for disposal to a specialized company authorized to conduct such activity. Do not pour unused product into drains. It must not be disposed of together with municipal waste. Empty packaging can be used for energy in a waste incineration plant or collected in a landfill with an appropriate classification. Perfectly cleaned packaging can be recycled. The classification of waste may change depending on where it is generated.

Waste management legislation

Producer Responsibility Obligations (Packaging Waste) Regulations 2007 (S.I. No. 871 of 2007). 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.

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. (contains: 2,2-bis [4- (2,3-epoxypropoxy) phenyl] propane)

14.3. Transport hazard class(es)

9 Miscellaneous dangerous substances and articles

14.4. Packing group

III

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14.5. Environmental hazards

Yes.

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

Additional information

Hazard identification No.

90

UN number

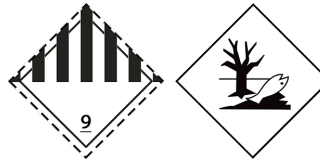
3082

Classification code

M6

Safety signs

9+hazardous for the environment



Road transport - ADR

Special provisions 274, 335, 375, 601

Limited quantities 5 L

Excepted quantities E1

Packaging

Packing instructions P001, IBC03, LP01, R001

Special packing provisions PP1

Mixed packing provisions MP19

Portable tanks and bulk containers

Guidelines T4

Special provisions TP1, TP29

ADR tank

Tank code LGBV

Vehicles for tank carriage AT

Transport category 3

Tunnel restriction code (-)

Special provision for

packages V12

loading, unloading and handling CV13

Railway transport - RID

Special provisions 274, 335, 375, 601

Excepted quantities E1

Packaging

Packing instructions P001, IBC03, LP01, R001

Special packing provisions PP1

Mixed packing provisions MP19

Portable tanks and bulk containers

Guidelines T4

Special provisions TP1, TP29

RID Tanks

Tank code LGBV

Transport category 0

Special provision for

packages W12

loading, unloading and handling CW13

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Air transport - ICAO/IATA

Packaging instructions for limited amount	Y964
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

Clean Air Act 1993 as amended. The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 as amended. Public health act 1961. Environmental Protection Act 1990 as amended. 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

A chemical safety assessment has not been carried out (mixture).

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.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
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.
H302+H332	Harmful if swallowed or if inhaled.
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.
P280	Wear protective gloves/protective clothing/eye protection/face 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.
P391	Collect spillage.
P501	Dispose of contents/container to according to the instructions of the manufacturer or person authorized to dispose of waste.

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

EUH066	Repeated exposure may cause skin dryness or cracking.
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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.

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 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
LL ₅₀	Lethal Loading for 50% of tested organisms
LOAEC	Lowest observed adverse effect concentration
log K _{ow}	Octanol-water partition coefficient
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
NOELR	No Observed Effect Loading Rate
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)
Asp. Tox.	Aspiration hazard
Carc.	Carcinogenicity

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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

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)

This safety data sheet replaces version 2.2 dated 21.09.2022.

Updated sections: 1,3,8,9,11,12,13,15.

More information

Classification procedure - calculation method and based on tests of physicochemical properties.

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.