SAFETY DATA SHEET

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

Nexler EPOLIS EP-300 składnik A

Creation date	18th December 2020		
Revision date	21st September 2022	Version	2.2

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

1.1. Product identifier — Nexler EPOLIS EP-300 składnik A

Substance / mixture: mixture

UFI: G4TJ-W0HN-700Y-U03Q

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 then those referred in Section 1.

1.3. Details of the supplier of the safety data sheet

Supplier

Name or trade name	IZOHAN sp. z o.o.
Address	Łużycka 2, Gdynia, 81-963 Poland
Identification number (CRN)	191528483
VAT Reg No	PL5862073821
Phone	+48 58 781 45 85
E-mail	info@izohan.eu
Web address	www.izohan.eu

Competent person responsible for the safety data sheet

Name	IZOHAN sp. z o.o.
E-mail	info@izohan.eu

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

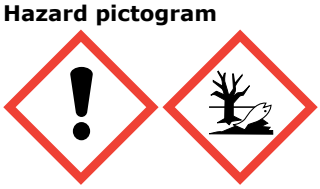
Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse effects on human health and the environment

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

2.2. Label elements

Hazard pictogram



Signal word

Warning

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	

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	0,15-0,32	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
EC: 905-588-0 Registration number: 01-2119488216-32	reaction mass of ethylbenzene and xylene	0,12-0,16	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	0,023-0,077	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	0,016-0,066	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	0,00010-0,00025	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.

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

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

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.

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/m³	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/m³	
	WEL 15min	100 ppm	
ethylbenzene	WEL 8h	441 mg/m³	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/m³	
	WEL 15min	125 ppm	
Xylene, o-,m-,p- or mixed isomers	WEL 8h	220 mg/m³	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.

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

Substance name (component)	Type	Value	Note
Xylene, o-,m-,p- or mixed isomers	WEL 8h	50 ppm	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.
	WEL 15min	441 mg/m³	
	WEL 15min	100 ppm	
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	WEL 8h	274 mg/m³	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/m³	
	WEL 15min	100 ppm	
2,6-dimethylheptan-4-one (CAS: 108-83-8)	WEL 8h	148 mg/m³	
	WEL 8h	25 ppm	
maleic anhydride (CAS: 108-31-6)	WEL 8h	1 mg/m³	Capable of causing occupational asthma.
	WEL 15min	3 mg/m³	

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/m³	Systemic chronic effects		
Workers	Dermal	7.7 mg/kg bw/day	Systemic chronic effects		

2-methoxy-1-methylethyl acetate

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Dermal	796 mg/kg bw/day	Systemic chronic effects		
Workers	Inhalation	275 mg/m³	Systemic chronic effects		
Workers	Inhalation	550 mg/m³	Local acute effects		
Consumers	Oral	36 mg/kg bw/day	Systemic chronic effects		
Consumers	Oral	500 mg/kg bw/day	Systemic acute effects		
Consumers	Dermal	320 mg/kg bw/day	Systemic chronic effects		
Consumers	Inhalation	33 mg/m³	Systemic chronic effects		
Consumers	Inhalation	33 mg/m³	Local chronic effects		

4-methylpentan-2-one

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	83 mg/m³	Systemic chronic effects		
Workers	Inhalation	208 mg/m³	Systemic acute effects		
Workers	Inhalation	83 mg/m³	Local chronic effects		
Workers	Inhalation	208 mg/m³	Local acute effects		
Workers	Dermal	11.8 mg/kg bw/day	Systemic chronic effects		
Consumers	Inhalation	14.7 mg/m³	Systemic chronic effects		
Consumers	Inhalation	155.2 mg/m³	Systemic acute effects		
Consumers	Inhalation	14.7 mg/m³	Local chronic effects		
Consumers	Inhalation	155.2 mg/m³	Local acute effects		
Consumers	Dermal	4.2 mg/kg bw/day	Systemic chronic effects		
Consumers	Oral	4.2 mg/kg bw/day	Systemic chronic effects		

benzyl alcohol

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	22 mg/m³	Systemic chronic effects		
Workers	Inhalation	110 mg/m³	Systemic acute effects		
Workers	Dermal	8 mg/kg bw/day	Systemic chronic effects		
Workers	Dermal	40 mg/kg bw/day	Systemic acute effects		
Consumers	Inhalation	5.4 mg/m³	Systemic chronic effects		
Consumers	Inhalation	27 mg/m³	Systemic acute effects		
Consumers	Dermal	4 mg/kg bw/day	Systemic chronic effects		
Consumers	Dermal	20 mg/kg bw/day	Systemic acute effects		
Consumers	Oral	4 mg/kg bw/day	Systemic chronic effects		
Consumers	Oral	20 mg/kg bw/day	Systemic acute effects		

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

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	4.93 mg/m³	Systemic chronic effects		
Workers	Dermal	0.75 mg/kg bw/day	Systemic chronic effects		
Consumers	Inhalation	0.87 mg/m³	Systemic chronic effects		
Consumers	Dermal	0.0893 mg/kg bw/day	Systemic chronic effects		
Consumers	Oral	0.5 mg/kg bw/day	Systemic chronic effects		

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	Systemic chronic effects		
Consumers	Dermal	62.5 mg/kg bw/day	Systemic chronic effects		
Workers	Dermal	104.15 mg/kg bw/day	Systemic chronic effects		
Consumers	Inhalation	8.7 mg/m³	Systemic chronic effects		
Workers	Inhalation	29.39 mg/m³	Systemic chronic effects		

maleic anhydride

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	0.081 mg/m³	Systemic chronic effects		
Workers	Inhalation	0.2 mg/m³	Systemic acute effects		
Workers	Inhalation	0.081 mg/m³	Local chronic effects		
Workers	Inhalation	0.2 mg/m³	Local acute effects		

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

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Dermal	1 mg/kg bw/day	Systemic chronic effects		
Workers	Inhalation	3.6 mg/m³	Systemic chronic effects		
Consumers	Dermal	0.5 mg/kg bw/day	Systemic chronic effects		
Consumers	Inhalation	0.87 mg/m³	Systemic chronic effects		
Consumers	Oral	0.5 mg/kg bw/day	Systemic chronic effects		

reaction mass of ethylbenzene and xylene

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	442 mg/m³	Systemic acute effects		
Workers	Inhalation	442 mg/m³	Local acute effects		
Workers	Dermal	212 mg/kg bw/day	Systemic chronic effects		
Workers	Inhalation	221 mg/m³	Local chronic effects		
Workers	Inhalation	221 mg/m³	Systemic chronic effects		
Consumers	Inhalation	260 mg/m³	Systemic acute effects		
Consumers	Inhalation	260 mg/m³	Local acute effects		
Consumers	Dermal	125 mg/kg bw/day	Systemic chronic effects		
Consumers	Inhalation	65.3 mg/m³	Systemic chronic effects		
Consumers	Inhalation	65.3 mg/m³	Local chronic effects		
Consumers	Oral	12.5 mg/kg bw/day	Systemic chronic effects		

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/cm²	Local acute effects		

PNEC

2,6-dimethylheptan-4-one

Route of exposure	Value	Value determination	Source
Drinking water	0.03 mg/l		
Seawater	0.003 mg/l		
Water (intermittent release)	0.3 mg/l		
Microorganisms in wastewater treatment plants	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		
Seawater	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		
Soil (agricultural)	0.29 mg/kg of dry substance of soil		
Microorganisms in wastewater treatment plants	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		
Seawater	0.06 mg/l		
Microorganisms in wastewater treatment plants	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		
Seawater	0.1 mg/l		
Water (intermittent release)	2.3 mg/l		
Microorganisms in wastewater treatment plants	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		
Seawater	0.001 mg/l		

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

Route of exposure	Value	Value determination	Source
Microorganisms in wastewater treatment plants	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		
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		
Seawater	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 wastewater treatment plants	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		
Seawater	0.004 mg/l		
Microorganisms in wastewater treatment plants	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		
Seawater	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		

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

Route of exposure	Value	Value determination	Source
Microorganisms in wastewater treatment plants	10 mg/l		
Soil (agricultural)	1.234 mg/kg of dry substance of soil		

reaction mass of ethylbenzene and xylene

Route of exposure	Value	Value determination	Source
Drinking water	0.327 mg/l		
Seawater	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 wastewater treatment plants	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

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

Thermal hazard

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	weak
Melting point/freezing point	-8 °C
Boiling point or initial boiling point and boiling range	>200 °C
Flammability	The product is non-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 mm²/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
4-methylpentan-2-one (CAS: 108-10-1)	26,4 hPa at 25 °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 available data the classification criteria 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 (Rattus norvegicus)	F/M
Inhalation (vapor)	LC_{50}	OECD 403	>14.5 mg/l of air	4 hour	Guinea-pig (Cavia aperea f. porcellus)	
Dermal	LD_{50}	OECD 402	>2000 mg/kg bw		Rat (Rattus norvegicus)	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 (Rattus norvegicus)	F/M
Oral	LD_{50}	OECD 401	6190 mg/kg bw		Rat (Rattus norvegicus)	F/M

4-methylpentan-2-one

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD_{50}	OECD 401	2080 mg/kg bw		Rat (Rattus norvegicus)	
Inhalation	LC_{50}	OECD 403	11.6 mg/l of air	4 hour	Rat (Rattus norvegicus)	M
Dermal	LD_{50}	OECD 402	>2000 mg/kg bw	24 hour	Rat (Rattus norvegicus)	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 (Rattus norvegicus)	M
Inhalation	LD_{50}	OECD 403	>4.178 mg/l of air	4 hour	Rat (Rattus norvegicus)	F/M
Dermal	LD_{50}	EPA OTS 798.1100	>2000 mg/kg bw	24 hour	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 (Rattus norvegicus)	M
Dermal	LD_{50}		>23000 mg/kg bw	24 hour	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 (Rattus norvegicus)	F/M
Dermal	LD_{50}	OECD 402	>2000 mg/kg bw		Rat (Rattus norvegicus)	F/M

maleic anhydride

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD_{50}	OECD 401	1090 mg/kg bw		Rat (Rattus norvegicus)	F/M
Dermal	LD_{50}		2620 mg/kg bw	24 hour	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 (Rattus norvegicus)	
Inhalation	LC_{50}		>0.15 mg/l of air	7 hour	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/m³	4 hour	Rat	M
Skin	LD_{50}		12126 mg/kg bw		Rabbit	M

Irritation

2,6-dimethylheptan-4-one

Route of exposure	Result	Exposure time	Species
Inhalation	Irritating		

reaction mass of ethylbenzene and xylene

Route of exposure	Result	Exposure time	Species
Inhalation	Irritating		

Skin corrosion/irritation

Causes skin irritation.

benzyl alcohol

Route of exposure	Result	Method	Exposure time	Species
Dermal	Slightly irritating	OECD 404	4 hour	Rabbit

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

Route of exposure	Result	Method	Exposure time	Species
Dermal	Slightly irritating	OECD 404	4 hour	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 hour	Rabbit

maleic anhydride

Route of exposure	Result	Method	Exposure time	Species
Dermal	Corrosive	OECD 404	4 hour	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 hour	Rabbit

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 hour	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 (Rattus norvegicus)	F/M

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

Route of exposure	Result	Method	Exposure time	Species	Sex
Dermal	Sensitizing				

Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met.

Reproductive toxicity

Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

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 day	Rat (Rattus norvegicus)	M
Inhalation (vapor)	NOAEC	Systemic effects	OECD 412	2650 mg/m³	6 week	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 day	Rat (Rattus norvegicus)	F/M
Inhalation (vapor)	NOAEC	Systemic effects	OECD 453	1650 mg/m³	2 year	Rat (Rattus norvegicus)	F/M
Inhalation (vapor)	LOAEC	Local effects	OECD 412	1650 mg/m³	9 day	Rat (Rattus norvegicus)	F/M
Dermal	NOAEL	Systemic effects		2675 mg/kg bw/day	3 month	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 week	Rat (Rattus norvegicus)	F/M
Inhalation (vapor)	NOAEC	No carcinogenic effect, Systemic effects	OECD 451	1843 mg/m³	2 year	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 week	Rat (Rattus norvegicus)	F/M
Inhalation (aerosols)	NOAEC	Local effects, Systemic effects	OECD 412	1072 mg/m³ of air	4 week	Rat (Rattus norvegicus)	F/M

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 week	Rat (Rattus norvegicus)	F/M
Dermal	NOAEL	Systemic effects	OECD 411	100 mg/kg bw/day	13 week	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 week	Rat (Rattus norvegicus)	F/M

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 day	Dog	F/M
Inhalation (vapor)	NOAEC	Systemic effects		3.3 mg/m³	6 month	Rat (Rattus norvegicus)	F/M
Inhalation (vapor)	LOAEC	Local effects		1.1 mg/m³	6 month	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 week	Rat (Rattus norvegicus)	F/M

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

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Dermal	NOAEL	Systemic effects	OECD 411	100 mg/kg bw/day	13 week	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 week	Rat (Rattus norvegicus)	F/M
Inhalation (vapor)	NOAEC	Systemic effects		3515 mg/m³	13 week	Dog	M

Aspiration hazard

Based on available data the classification criteria 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

Acute toxicity

Toxic to aquatic life with long lasting effects.

2,6-dimethylheptan-4-one

Parameter	Method	Value	Exposure time	Species	Environment
LC_{50}	OECD 203	30 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EC_{50}	OECD 202	37.2 mg/l	48 hour	Aquatic invertebrates (Daphnia magna)	
EC_{50}	OECD 201	46.9 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	
IC_{50}	OECD 209	255 mg/l	16 hour	Aquatic microorganisms	

2-methoxy-1-methylethyl acetate

Parameter	Method	Value	Exposure time	Species	Environment
LC_{50}	OECD 203	130 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EC_{50}	OECD 201	>1000 mg/l	96 hour	Algae (Raphidocelis subcapitata)	
EC_{50}	OECD 202	408 mg/l	48 hour	Aquatic invertebrates (Daphnia magna)	
NOEC	OECD 209	1000 mg/l	30 min	Aquatic microorganisms	Activated sludge

4-methylpentan-2-one

Parameter	Method	Value	Exposure time	Species	Environment
LC_{50}	OECD 203	>179 mg/l	96 hour	Fishes (Danio rerio)	
EC_{50}	OECD 202	>200 mg/l	48 hour	Aquatic invertebrates (Daphnia magna)	
EC_{50}	OECD 221	>146 mg/l	7 day	Algae (Lemma gibba)	

4-methylpentan-2-one

Parameter	Method	Value	Exposure time	Species	Environment
EC_{50}		275 mg/l	16 hour	Aquatic microorganisms (Pseudomonas putida)	

benzyl alcohol

Parameter	Method	Value	Exposure time	Species	Environment
LC_{50}	EPA OPP 72-1	460 mg/l	96 hour	Fishes (Pimephales promelas)	
EC_{50}	OECD 202	230 mg/l	48 hour	Aquatic invertebrates (Daphnia magna)	
EC_{50}	OECD 201	770 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	
NOEC	OECD 201	310 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	
IC_{50}		390 mg/l	24 hour	Aquatic microorganisms (Nitrosomonas)	

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

Parameter	Method	Value	Exposure time	Species	Environment
LC_{50}		2 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EC_{50}		1.8 mg/l	48 hour	Aquatic invertebrates (Daphnia magna)	
ErC_{50}		>11 mg/l	72 hour	Algae (Scenedesmus subspicatus)	
NOEC		4.2 mg/l	72 hour	Algae (Scenedesmus subspicatus)	
IC_{50}		>100 mg/l	3 hour	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 hour	Fishes	
EC_{50}		2.55 mg/l	48 hour	Aquatic invertebrates (Daphnia magna)	
EC_{50}		1.8 mg/l	72 hour	Algae (Selenastrum capricornutum)	
EC_{50}	OECD 201	1.8 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	
NOEC		100 mg/l	3 hour	Aquatic microorganisms	

maleic anhydride

Parameter	Method	Value	Exposure time	Species	Environment
LC_{50}		75 mg/l	96 hour	Fishes (Lepomis macrochirus)	
EC_{50}	OECD 202	37.9 mg/l	48 hour	Aquatic invertebrates (Daphnia magna)	

maleic anhydride

Parameter	Method	Value	Exposure time	Species	Environment
EC_{50}	OECD 201	65.78 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	
NOEC	OECD 201	10.4 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	
NOEC		44.6 mg/l	18 hour	Aquatic microorganisms (Pseudomonas putida)	

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

Parameter	Method	Value	Exposure time	Species	Environment
LL 50		>100 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
IC_{50}	OECD 201	843.75 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	
EC_{50}		>100 mg/l	180 min	Microorganisms (Photobacterium phosphoreum)	Activated sludge
EL 50		7.2 mg/l	48 hour	Aquatic invertebrates (Daphnia magna)	
NOEC	OECD 201	500 mg/l	72 hour	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 hour	Fishes (Oncorhynchus mykiss)	
EC_{50}	OECD 201	2.2 mg/l	73 hour	Algae (Pseudokirchneriella subcapitata)	
EC_{50}	OECD 209	>157 mg/l	3 hour	Aquatic microorganisms	Activated sludge
NOEC	OECD 201	0.44 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	
IC_{50}		220 mg/kg of dry substance of soil	10 hour	Microorganisms	
EC_{50}	OECD 202	1 mg/l	24 hour	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 day	Fishes (Oryzias latipes)	
NOEC	OECD 211	≥100 mg/l	21 day	Aquatic invertebrates (Daphnia magna)	

4-methylpentan-2-one

Parameter	Method	Value	Exposure time	Species	Environment
NOEC	OECD 211	30 mg/l	21 day	Aquatic invertebrates (Daphnia magna)	

benzyl alcohol

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

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

Parameter	Method	Value	Exposure time	Species	Environment
NOEC		0.3 mg/l	21 day	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 day	Aquatic invertebrates (Daphnia magna)	

maleic anhydride

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

reaction mass of ethylbenzene and xylene

Parameter	Method	Value	Exposure time	Species	Environment
NOEC		>1.3 mg/l	56 day	Fishes (Salmo gairdneri)	
NOEC		0.96 mg/l	7 day	Aquatic invertebrates (Ceriodaphnia dubia)	
NOEC	OECD 301F	16 mg/l	28 day	Aquatic microorganisms	Activated sludge
NOEC		16 mg/kg of dry substance of soil	14 week	Invertebrates (Eisenia andrei)	

12.2. Persistence and degradability

Biodegradability

2,6-dimethylheptan-4-one

Parameter	Method	Value	Exposure time	Environment	Result
ThOD	OECD 301D	88 %	20 day		Easily biodegradable

2-methoxy-1-methylethyl acetate

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301F	90 %	28 day		Easily biodegradable

4-methylpentan-2-one

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301F	83 %	28 day		Easily biodegradable

benzyl alcohol

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301A	95-97 %	21 day		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

maleic anhydride

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

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

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301F	87 %	28 day		Easily biodegradable

reaction mass of ethylbenzene and xylene

Parameter	Method	Value	Exposure time	Environment	Result
					Easily biodegradable

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

12.3. Bioaccumulative potential

2,6-dimethylheptan-4-one

Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow	OECD 117	3.71				20°C

2-methoxy-1-methylethyl acetate

Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow	OECD 117	1.2				20°C

4-methylpentan-2-one

Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]
Log Kow	OECD 117	1.9				20°C

benzyl alcohol

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

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

Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]
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]
Log Pow	OECD 117	3.6				20°C

maleic anhydride

Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]
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]
BCF		160		Fishes		

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

Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow	OECD 107	3.77				20°C

reaction mass of ethylbenzene and xylene

Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]
BCF		25.9				
Log Pow		3.16				20°C

Bioaccumulation is not expected.

12.4. 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

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		

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

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 - substances presenting low danger

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	W 12
loading, unloading and handling	CW 13
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

SECTION 15: Regulatory information

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

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 as amended. Environmental Protection Act 1990 as amended. Clean Air Act 1993 as amended. Public health act 1961. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

15.2. Chemical safety assessment

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.
P391	Collect spillage.
P501	Dispose of contents/container to according to the instructions of the manufacturer or person authorized to dispose of waste.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

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.

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
CE_{50}	Concentration of a substance when it is affected 50% of the population
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DMEL	Derived minimal effect level
DNEL	Derived no-effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EL_{50}	Effective Loading for 50% of the tested organisms
EmS	Emergency plan
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
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 Kow	Octanol-water partition coefficient
LZO	Volatile organic compounds
MARPOL	International Convention for the Prevention of Pollution from Ships
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UE	European Union
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
vPvB	Very Persistent and very Bioaccumulative
WE	Identification code for each substance listed in EINECS

Acute Tox.	Acute toxicity
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
Carc.	Carcinogenicity
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
Resp. Sens.	Respiratory sensitization
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure

Training guidelines

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

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. 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 2.1 dated 06.04.2022.
Updated sections: 9,10,11,12,13,15,16.

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.