SAFETY DATA SHEET

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

Nexler EPOLIS EP-100 składnik A

Creation date	16th 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-100 składnik A

Substance / mixture: mixture

UFI: 2EXJ-701G-J00Q-X27X

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

Mixture's intended use

For priming and strengthening concrete substrates for all types of insulation, epoxy coatings, laminates, putties, jointless floors as well as cement adhesives and mortars. For self-impregnation of concrete, building stone, brick, clinker surfaces, etc.

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.

Flam. Liq. 2, H225
Asp. Tox. 1, H304
Acute Tox. 4, H312+H332
Skin Irrit. 2, H315
Skin Sens. 1, H317
Eye Dam. 1, H318
STOT SE 3, H335
STOT RE 2, H373

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

Most serious adverse physico-chemical effects

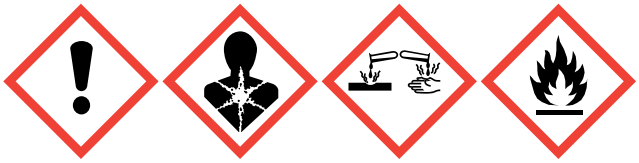
Highly flammable liquid and vapour.

Most serious adverse effects on human health and the environment

Causes skin irritation. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. May cause an allergic skin reaction. Causes serious eye damage. Harmful in contact with skin or if inhaled.

2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazardous substances

reaction mass of ethylbenzene and xylene
phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis [oxirane]
isobutanol

Hazard statements

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H312+H332	Harmful in contact with skin or if inhaled.

Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe vapours.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a doctor.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331	Do NOT induce vomiting.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to according to the instructions of the manufacturer or person authorized to dispose of waste.

Requirements for child-resistant fastenings and tactile warning of danger

Container must carry a tactile warning of danger. Container must be fitted with child-resistant fastening.

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
EC: 905-588-0 Registration number: 01-2119488216-32	reaction mass of ethylbenzene and xylene	50-63	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
CAS: 25036-25-3 Registration number: - [REACH art. 2 (9)]	phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)]bis[oxirane]	27-47	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319	
Index: 603-108-00-1 CAS: 78-83-1 EC: 201-148-0 Registration number: 01-2119484609-23	isobutanol	7-8	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335, H336	1
Index: 606-001-00-8 CAS: 67-64-1 EC: 200-662-2 Registration number: 01-2119471330-49	acetone	5-8	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	1

Notes

1 A substance for which exposure limits are set.

2 Substance for which biological limit values exist.

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Do not perform artificial respiration without self-protection (e.g. a mask). 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 unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

If inhaled

Take care of your own safety, do not let the affected person walk! Terminate the exposure immediately; move the affected person to fresh air. Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

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. Rinse skin with water or shower.

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. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

If swallowed

If the affected person vomits, make sure to prevent inhalation of the vomit (as there is a danger of lung damage after inhalation of these liquids in the airways also in infinitesimal amount). Ensure medical treatment considering the frequent need of further observation for at least 24 hours. Bring an original container with the label and the Safety Data Sheet of the given substance as appropriate.

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

If inhaled

Inhaling vapours can cause corrosion of the breathing system. Cough, headache. May cause respiratory irritation.

If on skin

May cause an allergic skin reaction.

If in eyes

Causes serious eye damage.

If swallowed

Corrosion of the digestion system can occur.

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. Closed containers with the product near the fire should be cooled with water. 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

Provide sufficient ventilation. Highly flammable liquid and vapour. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes.

6.2. Environmental precautions

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 flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes. No smoking. Contaminated work clothing should not be allowed out of the workplace. Wash hands and exposed parts of the body thoroughly after handling. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take action to prevent static discharges.

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. Do not expose to sunlight. Store locked up. Keep container tightly closed. Keep cool. Storage temperature required between +10 ° C and +25 ° C.

The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

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
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	
isobutanol (CAS: 78-83-1)	WEL 8h	154 mg/m³	
	WEL 8h	50 ppm	
	WEL 15min	231 mg/m³	
	WEL 15min	75 ppm	
acetone (CAS: 67-64-1)	WEL 8h	1210 mg/m³	
	WEL 8h	500 ppm	
	WEL 15min	3620 mg/m³	
	WEL 15min	1500 ppm	

United Kingdom **EH40/2005 Workplace exposure limits (Third edition, published 2018)**

Substance name (component)	Type	Value	Note
isobutanol (CAS: 78-83-1)	WEL 8h	154 mg/m³	
	WEL 8h	50 ppm	
	WEL 15min	231 mg/m³	
	WEL 15min	75 ppm	

Biological limit values

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

Name	Parameter	Value	Tested material	Time of sampling
reaction mass of ethylbenzene and xylene	Methylhippuric acids	650 mmol/mol creatinine	Urine	End of shift

DNEL

acetone

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Dermal	186 mg/kg bw/day	Systemic chronic effects		
Workers	Inhalation	1210 mg/m³	Systemic chronic effects		

acetone

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	2420 mg/m³	Local acute effects		
Consumers	Inhalation	200 mg/m³	Systemic chronic effects		
Consumers	Dermal	62 mg/kg bw/day	Systemic chronic effects		
Consumers	Oral	62 mg/kg bw/day	Systemic chronic effects		

isobutanol

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	310 mg/m³	Local chronic effects		
Consumers	Oral	25 mg/kg bw/day	Systemic chronic effects		
Consumers	Inhalation	55 mg/m³	Local 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		

PNEC

acetone

Route of exposure	Value	Value determination	Source
Drinking water	10.6 mg/l		
Seawater	1.06 mg/l		
Freshwater sediment	30.4 mg/kg of dry substance of sediment		
Sea sediments	3.04 mg/kg of dry substance of sediment		
Soil (agricultural)	29.5 mg/kg of dry substance of soil		
Microorganisms in wastewater treatment plants	100 mg/l		
Water (intermittent release)	21 mg/l		

isobutanol

Route of exposure	Value	Value determination	Source
Drinking water	0.4 mg/l		
Seawater	0.04 mg/l		
Freshwater sediment	1.56 mg/kg of dry substance of sediment		
Sea sediments	0.156 mg/kg of dry substance of sediment		
Soil (agricultural)	0.076 mg/kg of dry substance of soil		
Microorganisms in wastewater treatment plants	10 mg/l		
Water (intermittent release)	11 mg/l		

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

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. 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 or face shield (based on the nature of the work performed).

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

Mask with a filter 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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	colourless

Odour	irritating
Melting point/freezing point	<-25 °C
Boiling point or initial boiling point and boiling range	105 °C
Flammability	flammable liquid and vapor
Lower and upper explosion limit	not determined
Flash point	8 °C
Auto-ignition temperature	not determined
isobutanol (CAS: 78-83-1)	400 °C
reaction mass of ethylbenzene and xylene	432-528 °C
Decomposition temperature	not applicable
pH	5 (10% solution)
Kinematic viscosity	<20,5 mm²/s at 40 °C
Solubility in water	partially soluble
Solubility	dissolves in most organic solvents
Partition coefficient n-octanol/water (log value)	does not apply to mixtures
Vapour pressure	not determined
acetone (CAS: 67-64-1)	240 hPa at 20 °C
acetone (CAS: 67-64-1)	828 hPa at 50 °C
isobutanol (CAS: 78-83-1)	12 hPa at 20 °C
reaction mass of ethylbenzene and xylene	6,5-9,5 hPa at 20 °C
Density and/or relative density	
Density	0,94 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

Harmful in contact with skin or if inhaled.

acetone

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD_{50}		5800 mg/kg bw		Rat (Rattus norvegicus)	

acetone

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Inhalation	LC_{50}		76 mg/l of air	4 hour	Rat (Rattus norvegicus)	
Dermal	LD_{50}		7400 mg/kg bw		Rabbit	

isobutanol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD_{50}	OECD 401	3350 mg/kg bw		Rat (Rattus norvegicus)	F
Inhalation	LC_{50}		>18.2 mg/l of air	6 hour	Rat (Rattus norvegicus)	F/M
Dermal	LD_{50}	OECD 402	2000-2460 mg/kg bw	24 hour	Rabbit	F/M

phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis [oxirane]

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD_{50}		>2000 mg/kg bw		Rat (Rattus norvegicus)	

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

isobutanol

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.

isobutanol

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

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 damage.

acetone

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

isobutanol

Route of exposure	Result	Method	Exposure time	Species
Eye	Highly irritating, Causes damage	OECD 405	24 hour	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.

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

May cause respiratory irritation.

Toxicity for specific target organ - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

acetone

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	NOAEL	Systemic effects	OECD 408	900 mg/kg bw/day	13 week	Rat (Rattus norvegicus)	M
Inhalation (vapor)	NOAEC	Systemic effects		22.5 mg/l of air	8 week	Rat (Rattus norvegicus)	M

isobutanol

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Inhalation (vapor)	NOAEL	Systemic effects, Effects on fertility		≥7.5 mg/l of air	17 week	Rat (Rattus norvegicus)	F/M
Oral	NOAEL	Systemic effects	OECD 408	≥1450 mg/kg bw/day	90 day	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

May be fatal if swallowed and enters airways.

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

acetone

Parameter	Method	Value	Exposure time	Species	Environment
LC_{50}		5540 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
LC_{50}		11000 mg/l	96 hour	Fishes (Alburnus Alburnus)	
LC_{50}		8800 mg/l	48 hour	Aquatic invertebrates (Daphnia pulex)	
LC_{50}		2100 mg/l	24 hour	Aquatic invertebrates (Artemia salina)	
EC 12	OECD 209	1000 mg/l	30 min	Aquatic microorganisms	Activated sludge
LC_{50}	OECD 207	100-1000 µg/cm²	48 hour	Invertebrates (Eisenia fetida)	

isobutanol

Parameter	Method	Value	Exposure time	Species	Environment
LC_{50}		1430 mg/l	96 hour	Fishes (Pimephales promelas)	
EC_{50}		1100 mg/l	48 hour	Aquatic invertebrates (Daphnia pulex)	
EC_{50}	OECD 201	1799 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	
IC_{50}		>1000 mg/l	16 hour	Aquatic microorganisms	Activated sludge

phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis [oxirane]

Parameter	Method	Value	Exposure time	Species	Environment
LC_{50}		>100 mg/l	96 hour	Fishes (Leuciscus idus)	
EC_{50}		>100 mg/l	48 hour	Aquatic invertebrates (Daphnia magna)	
EC_{50}		>100 mg/l	96 hour	Algae	

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

acetone

Parameter	Method	Value	Exposure time	Species	Environment
NOEC		530 mg/l	8 day	Algae (Microcystis aeruginosa)	

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

acetone

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

isobutanol

Parameter	Method	Value	Exposure time	Environment	Result
ThOD	OECD 301C	90-100 %	14 day		Easily biodegradable

reaction mass of ethylbenzene and xylene

Parameter	Method	Value	Exposure time	Environment	Result
					Easily biodegradable

The product is partially biodegradable.

12.3. Bioaccumulative potential

acetone

Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]
BCF		3				
Log Pow		-0.24				20°C

isobutanol

Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow	OECD 117	1				25°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

reaction mass of ethylbenzene and xylene

Parameter	Method	Value	Environment	Temperature
Log Koc	OECD 121	2.73		

The product shows low 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 1866

14.2. UN proper shipping name

RESIN SOLUTION

14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

II - substances presenting medium danger

14.5. Environmental hazards

No.

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.	**33**
UN number	**1866**
Classification code	F1
Safety signs	3

Road transport - ADR	
Special provisions	640D
Limited quantities	5 L
Excepted quantities	E2
Packaging	
Packing instructions	P001, IBC02
Special packing provisions	PP1
Mixed packing provisions	MP19
Portable tanks and bulk containers	
Guidelines	T4
Special provisions	TP1, TP8
ADR tank	
Tank code	LGBF
Vehicles for tank carriage	FL
Transport category	2
Tunnel restriction code	(D/E)
Special provision for	
operation	S2, S20
Railway transport - RID	
Special provisions	640D
Excepted quantities	E2
Packaging	
Packing instructions	P001, IBC02
Special packing provisions	PP1
Mixed packing provisions	MP19
Portable tanks and bulk containers	
Guidelines	T4
Special provisions	TP1, TP8
RID Tanks	
Tank code	LGBF
Transport category	0
Air transport - ICAO/IATA	
Packaging instructions for limited amount	Y344
Packaging instructions passenger	355
Cargo packaging instructions	366
Marine transport - IMDG	
EmS (emergency plan)	F-E, S-E
MFAG	300

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. Product contains reportable explosives precursors: Reporting of suspicious transactions, disappearances and thefts according to Regulation (EU) 2019/1148, Article 9.

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.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
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.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a doctor.
P331	Do NOT induce vomiting.
P501	Dispose of contents/container to according to the instructions of the manufacturer or person authorized to dispose of waste.
P403+P235	Store in a well-ventilated place. Keep cool.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P260	Do not breathe vapours.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.

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

EUH066	Repeated exposure may cause skin dryness or cracking.

Other important information about human health protection

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

Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
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
DNEL	Derived no-effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
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
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
Asp. Tox.	Aspiration hazard
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure

Training guidelines

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

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. 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 07.03.2022.
Updated sections: 3,7,9,10,11,12,13,15,16.

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.