

SAFETY DATA SHEET



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

NEXLER EPOLIS EP 602 składnik A

Creation date	13th February 2023	Version	1.0
Revision date			

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

1.1. Product identifier
Substance / mixture NEXLER EPOLIS EP 602 składnik A
mixture
UFI PKWJ-504H-G00R-ANE9
Other mixture names
NEXLER EPOLIS EP 602 pion/poziom składnik A
NEXLER EPOLIS EP 602 rozlewna składnik A

1.2. Relevant identified uses of the substance or mixture and uses advised against
Mixture's intended use

A two-component, flexible epoxy membrane that protects mineral substrates against water, sewage, and chemically aggressive substances, and in the version with sand, an abrasion-resistant surface-insulation for indoor and outdoor use.

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	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.

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2.2. Label elements

Hazard pictogram



Signal word

Warning

Hazardous substances

bis[4-(2,3-epoxypropoxy)phenyl]propane
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

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.
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	25-32	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 %	
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	5,2-8,2	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411	
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.	5,2-8,2	Skin Irrit. 2, H315 Skin Sens. 1, H317	2

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 64742-95-6 EC: 918-668-5 Registration number: 01-2119455851-35	Hydrocarbons, C9, aromatics	0,2-0,6	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H335, H336 Aquatic Chronic 2, H411 EUH066	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	0,02-0,04	Flam. Liq. 3, H226 STOT SE 3, H336	1

Notes

- 1 A substance for which exposure limits are set.
- 2 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.

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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.

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
trimethylbenzene (CAS: 64742-95-6)	WEL 8h	125 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	25 ppm	
2-methoxy-1-methylethyl acetate (CAS: 108-65-6)	WEL 8h	274 mg/m ³	
	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.

DNEL

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/m ³	Systemic chronic effects		
Workers	Inhalation	550 mg/m ³	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/m ³	Systemic chronic effects		
Consumers	Inhalation	33 mg/m ³	Local chronic effects		

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

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	4.93 mg/m ³	Systemic chronic effects		
Workers	Dermal	0.75 mg/kg bw/day	Systemic chronic effects		
Consumers	Inhalation	0.87 mg/m ³	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/m ³	Systemic chronic effects		
Workers	Inhalation	29.39 mg/m ³	Systemic chronic effects		

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Hydrocarbons, C9, aromatics

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Dermal	12.5 mg/kg bw/day	Systemic chronic effects		
Workers	Inhalation	151 mg/m ³	Systemic chronic effects		
Consumers	Dermal	7.5 mg/kg bw/day	Systemic chronic effects		
Consumers	Inhalation	32 mg/m ³	Systemic chronic effects		
Consumers	Oral	7.5 mg/kg bw/day	Systemic chronic 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/m ³	Systemic chronic effects		
Consumers	Dermal	0.5 mg/kg bw/day	Systemic chronic effects		
Consumers	Inhalation	0.87 mg/m ³	Systemic chronic effects		
Consumers	Oral	0.5 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/cm ²	Local acute effects		

PNEC

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		

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		
Microorganisms in wastewater treatment plants	10 mg/l		

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

Route of exposure	Value	Value determination	Source
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		

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		
Microorganisms in wastewater treatment plants	10 mg/l		
Soil (agricultural)	1.234 mg/kg of dry substance of soil		

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.

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Respiratory protection

It is not needed.

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	grey, According to the offer
Odour	characteristic
Melting point/freezing point	-10 °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	>100 °C
Auto-ignition temperature	not determined
Hydrocarbons, C9, aromatics (CAS: 64742-95-6)	>400 °C
Decomposition temperature	not applicable
pH	non-soluble (in water)
Kinematic viscosity	not determined
Viscosity	thixotropic behaviour
Solubility in water	insoluble
Partition coefficient n-octanol/water (log value)	does not apply to mixtures
Vapour pressure	not determined
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
Density and/or relative density	
Density	1,75 g/cm ³ at 22 °C
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.

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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-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

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

Hydrocarbons, C9, aromatics

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

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	

Skin corrosion/irritation

Causes skin irritation.

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

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Hydrocarbons, C9, aromatics

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

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

Route of exposure	Result	Method	Exposure time	Species
Dermal	Irritating			

Serious eye damage/irritation

Causes serious eye irritation.

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

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

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-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/m ³	2 year	Rat (Rattus norvegicus)	F/M
Inhalation (vapor)	LOAEC	Local effects	OECD 412	1650 mg/m ³	9 day	Rat (Rattus norvegicus)	F/M
Dermal	NOAEL	Systemic effects		2675 mg/kg bw/day	3 month	Rabbit	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 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

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 day	Rat (Rattus norvegicus)	F/M
Inhalation (vapor)	NOAEC	Systemic effects	OECD 452	900 mg/m ³	1 year	Rat (Rattus norvegicus)	F

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

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)	

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

Parameter	Method	Value	Exposure time	Species	Environment
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	

Hydrocarbons, C₉, aromatics

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

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)	

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)	

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2-methoxy-1-methylethyl acetate

Parameter	Method	Value	Exposure time	Species	Environment
NOEC	OECD 211	≥100 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)	

Hydrocarbons, C9, aromatics

Parameter	Method	Value	Exposure time	Species	Environment
NOELR		2.14 mg/l	21 day	Aquatic invertebrates (Daphnia magna)	
NOELR		1.23 mg/l	28 day	Fishes (Oncorhynchus mykiss)	
NOEC	OECD 209	>99 mg/l	10 min	Aquatic microorganisms	Activated sludge

12.2. Persistence and degradability

Biodegradability

2-methoxy-1-methylethyl acetate

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

Hydrocarbons, C9, aromatics

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301F	78 %	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

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

12.3. Bioaccumulative potential

2-methoxy-1-methylethyl acetate

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

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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

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

Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]	Value determination
BCF		160		Fishes			
Log Pow	OECD 107	3.77				20°C	

Bioaccumulation is not expected.

12.4. Mobility in soil

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		

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

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

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.

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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

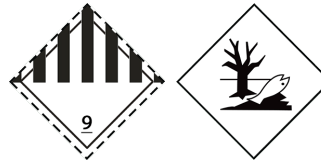
3082

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

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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

H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

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.

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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
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 K _{ow}	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
NOEL	No observed effect level
NOELR	No Observed Effect Loading Rate
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

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Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
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.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.