

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	1.1
Revision date	17th June 2024		

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

1.1. Product identifier
Substance / mixture NEXLER EPOLIS EP 602 składnik A
UFI mixture
Other mixture names PKWJ-504H-G00R-ANE9
NEXLER EPOLIS EP 602 pion/poziom składnik A
NEXLER EPOLIS EP 602 rozlewny 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	NEXLER sp. z o.o.
Address	Łużycka 6, Gdynia, 81-537 Poland
Identification number (CRN)	191528483
VAT Reg No	PL5862073821
Phone	+48 58 781 45 85
E-mail	info@nexler.com
Web address	www.nexler.com

Competent person responsible for the safety data sheet

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

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Skin Irrit. 2, H315
Skin Sens. 1, H317
Eye Irrit. 2, H319
Aquatic Chronic 2, H411

Most serious adverse effects on human health and the environment

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

2.2. Label elements

Hazard pictogram



Signal word

Warning

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Hazardous substances

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

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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.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

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

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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	
	WEL 15min	100 ppm	

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DNEL

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

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

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Consumers	Oral	6.25 mg/kg bw/day	Chronic effects systemic		
Consumers	Dermal	62.5 mg/kg bw/day	Chronic effects systemic		
Workers	Dermal	104.15 mg/kg bw/day	Chronic effects systemic		
Consumers	Inhalation	8.7 mg/m ³	Chronic effects systemic		
Workers	Inhalation	29.39 mg/m ³	Chronic effects systemic		

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

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oxirane, mono[(C12-14-alkyloxy)methyl] derivs.					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Dermal	1 mg/kg bw/day	Chronic effects systemic		
Workers	Inhalation	3.6 mg/m ³	Chronic effects systemic		
Consumers	Dermal	0.5 mg/kg bw/day	Chronic effects systemic		
Consumers	Inhalation	0.87 mg/m ³	Chronic effects systemic		
Consumers	Oral	0.5 mg/kg bw/day	Chronic effects systemic		

DMEL

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Dermal	8.3 µg/cm ²	Acute effects local		

PNEC

2-methoxy-1-methylethyl acetate			
Route of exposure	Value	Value determination	Source
Drinking water	0.635 mg/l		
Marine water	0.064 mg/l		
Freshwater sediment	3.29 mg/kg of dry substance of sediment		
Sea sediments	0.329 mg/kg of dry substance of sediment		
Soil (agricultural)	0.29 mg/kg of dry substance of soil		
Microorganisms in sewage treatment	100 mg/l		
Water (intermittent release)	6.35 mg/l		

bis[4-(2,3-epoxypropoxy)phenyl]propane			
Route of exposure	Value	Value determination	Source
Drinking water	0.006 mg/l		
Water (intermittent release)	0.018 mg/l		
Marine water	0.001 mg/l		
Microorganisms in sewage treatment	10 mg/l		
Freshwater sediment	0.341 mg/kg of dry substance of sediment		
Sea sediments	0.034 mg/kg of dry substance of sediment		
Soil (agricultural)	0.065 mg/kg of dry substance of soil		
Food chain	11 mg/kg of food		

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Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol			
Route of exposure	Value	Value determination	Source
Drinking water	0.003 mg/l		
Marine water	0 mg/l		
Freshwater sediment	0.294 mg/kg		
Sea sediments	0.029 mg/kg		
Soil (agricultural)	0.237 mg/kg of dry substance of soil		
Microorganisms in sewage treatment	10 mg/l		
Water (intermittent release)	0.025 mg/l		

oxirane, mono[(C12-14-alkyloxy)methyl] derivs.			
Route of exposure	Value	Value determination	Source
Drinking water	0.106 mg/l		
Marine water	0.011 mg/l		
Water (intermittent release)	0.072 mg/l		
Freshwater sediment	307.16 mg/kg of dry substance of sediment		
Sea sediments	30.72 mg/kg of dry substance of sediment		
Microorganisms in sewage treatment	10 mg/l		
Soil (agricultural)	1.234 mg/kg of dry substance of soil		

8.2. Exposure controls

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

Eye/face protection

Protective goggles.

Skin protection

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

Respiratory protection

It is not needed.

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 not flammable
Lower and upper explosion limit	not applicable

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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/cm³ 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.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

Acute toxicity

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

2-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

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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 hours	Rabbit	

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

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀	OECD 401	>5000 mg/kg bw		Rat (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 hours	Rabbit	F/M
Inhalation (vapor)	LC ₅₀	OECD 403	>6193 mg/m ³	4 hours	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 hours	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 hours	Rabbit

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

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

Hydrocarbons, C9, aromatics

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

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

Route of exposure	Result	Method	Exposure time	Species
Dermal	Irritating			

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

Carcinogenicity

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

Reproductive toxicity

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

Toxicity for specific target organ - single exposure

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

Toxicity for specific target organ - repeated exposure

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

Repeated dose toxicity

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

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

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

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

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

Hydrocarbons, C9, aromatics

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	NOAEL	Systemic effects	OECD 408	600 mg/kg bw/day	90 days	Rat (<i>Rattus norvegicus</i>)	F/M
Inhalation (vapor)	NOAEC	Systemic effects	OECD 452	900 mg/m ³	1 year	Rat (<i>Rattus norvegicus</i>)	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 weeks	Rat (<i>Rattus norvegicus</i>)	F/M
Dermal	NOAEL	Systemic effects	OECD 411	100 mg/kg bw/day	13 weeks	Rat (<i>Rattus norvegicus</i>)	F/M

Aspiration hazard

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

11.2. Information on other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity

Toxic to aquatic life with long lasting effects.

Acute toxicity

2-methoxy-1-methylethyl acetate

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

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

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

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

Parameter	Method	Value	Exposure time	Species	Environment
LC ₅₀		2.54 mg/l	96 hours	Fish	
EC ₅₀		2.55 mg/l	48 hours	Aquatic invertebrates (Daphnia magna)	
EC ₅₀		1.8 mg/l	72 hours	Algae (Selenastrum capricornutum)	
EC ₅₀	OECD 201	1.8 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	
NOEC		100 mg/l	3 hours	Aquatic microorganisms	

Hydrocarbons, C9, aromatics

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

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

Parameter	Method	Value	Exposure time	Species	Environment
LL ₅₀		>100 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
IC ₅₀	OECD 201	843.75 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	
EC ₅₀		>100 mg/l	180 minutes	Microorganisms (Photobacterium phosphoreum)	Activated sludge
EL ₅₀		7.2 mg/l	48 hours	Aquatic invertebrates (Daphnia magna)	
NOEC	OECD 201	500 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	

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Chronic toxicity

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

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

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

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

12.2. Persistence and degradability

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

Biodegradability

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

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

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

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

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

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12.3. Bioaccumulative potential

Bioaccumulation is not expected.

2-methoxy-1-methylethyl acetate

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

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

Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]	Value determination
Log Pow	OECD 117	3.242				25°C	

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

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

Hydrocarbons, C9, aromatics

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

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

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

12.4. Mobility in soil

The product is insoluble in water and does not show 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

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

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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

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



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Road transport - ADR

Special provisions	274, 335, 375, 601
Limited quantities	5 L
Excepted quantities	E1

Packaging

Packing instructions	P001, IBC03, LP01, R001
Special packing provisions	PP1
Mixed packing provisions	MP19

Portable tanks and bulk containers

Guidelines	T4
Special provisions	TP1, TP29

ADR tank

Tank code	LGBV
Vehicles for tank carriage	AT
Transport category	3
Tunnel restriction code	(-)

Special provision for

packages	V12
loading, unloading and handling	CV13

Railway transport - RID

Special provisions	274, 335, 375, 601
Excepted quantities	E1

Packaging

Packing instructions	P001, IBC03, LP01, R001
Special packing provisions	PP1
Mixed packing provisions	MP19

Portable tanks and bulk containers

Guidelines	T4
Special provisions	TP1, TP29

RID Tanks

Tank code	LGBV
Transport category	0

Special provision for

packages	W12
loading, unloading and handling	CW13

Air transport - ICAO/IATA

Packaging instructions for limited amount	Y964
Packaging instructions passenger	964
Cargo packaging instructions	964

Marine transport - IMDG

EmS (emergency plan)	F-A, S-F
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SECTION 15: Regulatory information

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

Clean Air Act 1993 as amended. The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 as amended. Public health act 1961. Environmental Protection Act 1990 as amended. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

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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 according to the instructions of the manufacturer or person authorized to dispose of waste.

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

EUH066	Repeated exposure may cause skin dryness or cracking.
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Other important information about human health protection

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

Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC ₅₀	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EL ₅₀	Effective Loading for 50% of the tested organisms
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC ₅₀	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
LL ₅₀	Lethal Loading for 50% of tested organisms
LOAEC	Lowest observed adverse effect concentration

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log Kow	Octanol-water partition coefficient
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
NOELR	No Observed Effect Loading Rate
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
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.

The changes (which information has been added, deleted or modified)

This safety data sheet replaces version: 1.0 dated 13.02.2023.

Updated sections: 1,13,15.

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.