SAFETY DATA SHEET

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

NEXLER EPOLIS EP 603 składnik B

Creation date	14th February 2023		
Revision date	17th June 2024	Version	1.1

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

1.1. Product identifier NEXLER EPOLIS EP 603 składnik B

Substance / mixture: mixture

UFI: 93P6-R0H6-9001-A04E

Other mixture names

NEXLER EPOLIS EP 603 pion składnik B
NEXLER EPOLIS EP 603 poziom składnik B

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

Mixture's intended use

Three-component (EP 603 pion) / Two-component (EP 603 poziom), flexible epoxy sealant used indoors and outdoors to fill expansion joints from 5 to 30 mm as well as scratches and cracks on vertical (EP 603 pion) / horizontal (EP 603 poziom) surfaces.

Main intended use

PC-ADH-8	Multi-component adhesives and sealants

Secondary uses

PC-ADH-2	Adhesives and sealants - building and construction works (except cement based adhesives)

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.

Acute Tox. 4, H302
Skin Corr. 1A, H314
Skin Sens. 1, H317
Eye Dam. 1, H318
Aquatic Acute 1, H400
Aquatic Chronic 1, H410

Most serious adverse effects on human health and the environment

Causes serious eye damage. Causes severe skin burns and eye damage. Harmful if swallowed. May cause an allergic skin reaction. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram

Signal word

Danger

Hazardous substances

Polyoxypropylenediamine
Phenol, styrenated
2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine
Amines, C12-18-(even numbered) and C18-(unsaturated) alkyl

Hazard statements

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H410	Very 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.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a doctor.
P391	Collect spillage.
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
CAS: 9046-10-0 Registration number: - [REACH art. 2 (9)]	Polyoxypropylenediamine	30-<50	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412	
CAS: 61788-44-1 EC: 262-975-0 Registration number: 01-2119979575-18	Phenol, styrenated	25-<30	Skin Irrit. 2, H315 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	1

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 25513-64-8 EC: 247-063-2 Registration number: 01-2119560598-25	2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine	5-<10	Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Sens. 1A, H317 Eye Dam. 1, H318	
CAS: 2156592-58-2 EC: 701-068-0 Registration number: 01-2119473798-17	Amines, C12-18-(even numbered) and C18-(unsaturated) alkyl	5-<10	Acute Tox. 4, H302 Asp. Tox. 1, H304 Skin Corr. 1B, H314 STOT SE 3, H335 STOT RE 2, H373 (ingestion) Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)	1
Index: 603-069-00-0 CAS: 90-72-2 EC: 202-013-9 Registration number: 01-2119560597-27	2,4,6-tris(dimethylaminomethyl)phenol	3-<5	Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318	

Notes

1 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 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

Terminate the exposure immediately; move the affected person to fresh air. Take care of your own safety, do not let the affected person walk! 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. Take off any rings, watches, bracelets before or during washing if worn in the contaminated areas of the skin. Rinse contaminated areas with a flow of water, lukewarm at best, for 10-30 minutes; do not use any brush, soap or neutralizers. Depending on the situation, call the medical rescue service and always ensure medical treatment. Rinse cautiously with water for several minutes. 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

RINSE THE MOUTH WITH WATER IMMEDIATELY AND LET THE PERSON DRINK 2-5 dl of cold water to reduce the heating effect of the corrosive substance. Consuming larger amounts of liquid is not advisable as it may induce vomiting and potential inhaling of the corrosive substances in the lungs. The affected person must not be forced to drink, particularly if already feeling pain in the mouth or throat. In this case let the affected person only rinse the mouth with water. DO NOT PROVIDE ACTIVATED CARBON! Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible.

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

If inhaled

Inhaling vapours can cause corrosion of the breathing system.

If on skin

Causes severe skin burns. 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. As a result of thermal decomposition or reactions with incompatible substances, compounds such as nitric acid, ammonia, nitrogen oxides, aldehydes may be formed. Nitrogen oxides can react with water vapor to form caustic nitric acid.

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. 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. Do not allow to enter drains.

6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not inhale mist/vapours/spray. 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. Do not eat, drink or smoke when using this product. 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. Store locked up.

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains no substances for which occupational exposure limits are set.

DNEL

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Consumers	Oral	0.05 mg/kg bw/day	Chronic effects systemic		

2,4,6-tris(dimethylaminomethyl)phenol					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	0.53 mg/m³	Chronic effects systemic		
Workers	Inhalation	2.1 mg/m³	Acute effects systemic		
Workers	Dermal	0.15 mg/kg bw/day	Chronic effects systemic		
Workers	Dermal	0.6 mg/kg bw/day	Acute effects systemic		
Consumers	Inhalation	0.13 mg/m³	Chronic effects systemic		
Consumers	Inhalation	0.13 mg/m³	Acute effects systemic		
Consumers	Dermal	0.075 mg/kg bw/day	Chronic effects systemic		
Consumers	Dermal	0.075 mg/kg bw/day	Acute effects systemic		
Consumers	Oral	0.075 mg/kg bw/day	Chronic effects systemic		

Amines, C12-18-(even numbered) and C18-(unsaturated) alkyl					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Consumers (0)	Oral	0.04 mg/kg bw/day	Chronic effects systemic		
Workers	Inhalation	0.38 mg/m³	Chronic effects systemic		
Workers (0)	Inhalation	1 mg/m³	Chronic effects local		
Workers (0)	Inhalation	1 mg/m³	Acute effects local		
Consumers (0)	Inhalation	0.035 mg/m³	Chronic effects systemic		

Phenol, styrenated					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	7.4 mg/m³	Chronic effects systemic		
Workers	Dermal	2.1 mg/kg bw/day	Chronic effects systemic		
Consumers	Inhalation	1.31 mg/m³	Chronic effects systemic		
Consumers	Dermal	0.75 mg/kg bw/day	Chronic effects systemic		
Consumers	Oral	0.75 mg/kg bw/day	Chronic effects systemic		

PNEC

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine			
Route of exposure	Value	Value determination	Source
Drinking water	0.102 mg/l		
Water (intermittent release)	0.315 mg/l		
Marine water	0.01 mg/l		
Microorganisms in sewage treatment	72 mg/l		
Freshwater sediment	0.622 mg/kg of dry substance of sediment		
Sea sediments	0.062 mg/kg of dry substance of sediment		
Soil (agricultural)	10 mg/kg of dry substance of soil		

2,4,6-tris(dimethylaminomethyl)phenol			
Route of exposure	Value	Value determination	Source
Drinking water	0.046 mg/l		
Marine water	0.005 mg/l		
Water (intermittent release)	0.46 mg/l		
Microorganisms in sewage treatment	0.2 mg/l		
Freshwater sediment	0.262 mg/kg of dry substance of sediment		
Sea sediments	0.026 mg/kg of dry substance of sediment		
Soil (agricultural)	0.025 mg/kg of dry substance of soil		

Amines, C12-18-(even numbered) and C18-(unsaturated) alkyl			
Route of exposure	Value	Value determination	Source
Drinking water	0.26 µg/l		
Marine water	0.026 µg/l		
Microorganisms in sewage treatment	550 µg/l		
Freshwater sediment	3.76 mg/kg of dry substance of sediment		
Sea sediments	0.376 mg/kg of dry substance of sediment		
Soil (agricultural)	10 mg/kg of dry substance of soil		
Water (intermittent release)	1.6 µg/l		

Phenol, styrenated			
Route of exposure	Value	Value determination	Source
Drinking water	4 µg/l		

Phenol, styrenated			
Route of exposure	Value	Value determination	Source
Water (intermittent release)	46 µg/l		
Marine water	0.4 µg/l		
Microorganisms in sewage treatment	36.2 mg/l		
Freshwater sediment	0.248 mg/kg of dry substance of sediment		
Sea sediments	0.0248 mg/kg of dry substance of sediment		
Soil (agricultural)	0.0473 mg/kg of dry substance of sediment		

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

Eye/face protection

Protective goggles.

Skin protection

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

Respiratory protection

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

Thermal hazard

Data not available.

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	straw colored
Odour	amine
Melting point/freezing point	<-20 °C
Boiling point or initial boiling point and boiling range	>120 °C
Flammability	the product is not flammable
Lower and upper explosion limit	not applicable
Flash point	>100 °C
Auto-ignition temperature	not determined
Amines, C12-18-(even numbered) and C18-(unsaturated) alkyl (CAS: 2156592-58-2)	255 °C
Decomposition temperature	>120 °C
pH	11-12 (10% solution at 22 °C)
Kinematic viscosity	300-500 mm²/s at 22 °C
Solubility in water	partially soluble
Partition coefficient n-octanol/water (log value)	does not apply to mixtures
Vapour pressure	not determined
2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine (CAS: 25513-64-8)	0.04 hPa at 20 °C

Density and/or relative density	
Density	0.99 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 peroxides, aldehydes, ketones, epoxy resins.

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

Reactive metals (e.g. sodium, calcium, zinc, etc.). Substances which react with hydroxyl compounds. Mineral Acids. Organic acids (i.e. acetic acid, citric acid etc.). Sodium hypochlorite. Oxidizing agents, reaction with peroxides may cause rapid decomposition of the peroxide with the possibility of an explosion.

10.6. Hazardous decomposition products

Not developed under normal uses. As a result of thermal decomposition or reactions with incompatible substances, compounds such as nitric acid, ammonia, nitrogen oxides, carbon oxides, aldehydes may be formed. Nitrogen oxides can react with water vapor to form caustic nitric acid.

SECTION 11: Toxicological information

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

No toxicological data is available for the mixture.

Acute toxicity

Harmful if swallowed.

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD_{50}		910 mg/kg bw		Rat (Rattus norvegicus)	M

2,4,6-tris(dimethylaminomethyl)phenol						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Dermal	LD_{50}		>1 ml/kg bw	6 hours	Rat (Rattus norvegicus)	M
Oral	LD_{50}	OECD 401	2169 mg/kg bw		Rat (Rattus norvegicus)	F/M

Amines, C12-18-(even numbered) and C18-(unsaturated) alkyl						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Dermal	LD_{50}	OECD 402	>2000 mg/kg bw		Rat (Rattus norvegicus)	F/M
Oral	LD_{50}	OECD 401	1300 mg/kg bw		Rat (Rattus norvegicus)	F/M

Phenol, styrenated						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Dermal	LD_{50}	OECD 402	>2000 mg/kg bw	24 hours	Rat (Rattus norvegicus)	F/M
Oral	LD_{50}	OECD 423	>2000 mg/kg bw		Rat (Rattus norvegicus)	F

Polyoxypropylenediamine						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Dermal	LD_{50}		2085.8 mg/kg bw		Rabbit	
Inhalation (vapor)	LC_{50}	OECD 403	>0.74 mg/l	8 hours	Rat (Rattus norvegicus)	F/M

Skin corrosion/irritation
Causes severe skin burns and eye damage.

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine				
Route of exposure	Result	Method	Exposure time	Species
Dermal	Corrosive	OECD 404		Rabbit

2,4,6-tris(dimethylaminomethyl)phenol				
Route of exposure	Result	Method	Exposure time	Species
Dermal	Corrosive	OECD 435		

Amines, C12-18-(even numbered) and C18-(unsaturated) alkyl				
Route of exposure	Result	Method	Exposure time	Species
Dermal	Corrosive	OECD 404	1 hour	Rabbit

Polyoxypropylenediamine				
Route of exposure	Result	Method	Exposure time	Species
Dermal	Corrosive	OECD 404	1 hour	Rabbit

Irritation

Amines, C12-18-(even numbered) and C18-(unsaturated) alkyl			
Route of exposure	Result	Exposure time	Species
Inhalation	Irritating		

Serious eye damage/irritation
Causes severe skin burns and eye damage.

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine				
Route of exposure	Result	Method	Exposure time	Species
Eye	Corrosive	OECD 405		Rabbit

2,4,6-tris(dimethylaminomethyl)phenol				
Route of exposure	Result	Method	Exposure time	Species
Eye	Corrosive			

Amines, C12-18-(even numbered) and C18-(unsaturated) alkyl				
Route of exposure	Result	Method	Exposure time	Species
Eye	Highly irritating	OECD 405	24 hours	Rabbit

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

Respiratory or skin sensitisation
May cause an allergic skin reaction.

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine					
Route of exposure	Result	Method	Exposure time	Species	Sex
Dermal	Sensitizing	OECD 406		Guinea-pig (Cavia aperea f. porcellus)	F

Phenol, styrenated					
Route of exposure	Result	Method	Exposure time	Species	Sex
Dermal	Sensitizing	OECD 429		Mouse	

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

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine							
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	LOAEL			60 mg/kg bw/day	13 weeks	Rat (Rattus norvegicus)	F/M
Oral	NOAEL			10 mg/kg bw/day	13 weeks	Rat (Rattus norvegicus)	F/M

2,4,6-tris(dimethylaminomethyl)phenol							
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	NOAEL	Systemic effects	OECD 422	15 mg/kg bw/day	54 days	Rat (Rattus norvegicus)	F/M

Amines, C12-18-(even numbered) and C18-(unsaturated) alkyl							
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	NOAEL	Systemic effects	OECD 407	3.25 mg/kg bw/day	29 days	Rat (Rattus norvegicus)	F/M

Phenol, styrenated							
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	NOAEL	Systemic effects		150 mg/kg bw/day	36 weeks	Rat (Rattus norvegicus)	F/M

Polyoxypropylenediamine							
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
	NOAEL		OECD 411	250 mg/kg bw		Rat (Rattus norvegicus)	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

Very toxic to aquatic life with long lasting effects.

Acute toxicity

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine					
Parameter	Method	Value	Exposure time	Species	Environment
LC_{50}		174 mg/l	48 hours	Fish (Leuciscus idus)	
EC_{50}		31.5 mg/l	24 hours	Aquatic invertebrates (Daphnia magna)	
ErC_{50}	OECD 201	43.5 mg/l	72 hours	Algae (Selenastrum capricornutum)	
LOEC	OECD 201	40 mg/l	72 hours	Algae (Selenastrum capricornutum)	
NOEC	OECD 201	16 mg/l	72 hours	Algae (Selenastrum capricornutum)	
EC_{50}		89 mg/l	17 hours	Aquatic microorganisms (Pseudomonas putida)	
NOEC	OECD 216	1000 mg/kg of dry substance of soil	28 days	Microorganisms	Activated sludge

2,4,6-tris(dimethylaminomethyl)phenol					
Parameter	Method	Value	Exposure time	Species	Environment
LC_{50}		175 mg/l	96 hours	Fish (Cyprinus carpio)	
EC_{50}		718 mg/l	96 hours	Aquatic invertebrates (Palaeomonetes vulgaris)	

2,4,6-tris(dimethylaminomethyl)phenol					
Parameter	Method	Value	Exposure time	Species	Environment
ErC_{50}	OECD 201	46.7 mg/l	72 hours	Algae (Selenastrum capricornutum)	
NOEC	OECD 201	25.1 mg/l	72 hours	Algae (Selenastrum capricornutum)	

Amines, C12-18-(even numbered) and C18-(unsaturated) alkyl					
Parameter	Method	Value	Exposure time	Species	Environment
LC_{50}	OECD 203	0.84 mg/l	96 hours	Fish (Danio rerio)	
EC_{50}	OECD 202	0.32 mg/l	48 hours	Aquatic invertebrates (Daphnia magna)	
EbC_{50}	OECD 201	0.08 mg/l	72 hours	Algae (Selenastrum capricornutum)	
ErC_{50}	OECD 201	0.16 mg/l	72 hours	Algae (Selenastrum capricornutum)	
EC_{50}	OECD 209	14 mg/l	3 hours	Aquatic microorganisms	Activated sludge
LC_{50}	OECD 207	>1000 mg/kg of dry substance of soil	14 days	Invertebrates (Eisenia fetida)	

Phenol, styrenated					
Parameter	Method	Value	Exposure time	Species	Environment
LC_{50}		5.6 mg/l	96 hours	Fish (Danio rerio)	
EL_{50}	OECD 201	20.42 mg/l	72 hours	Algae (Selenastrum capricornutum)	
EC_{50}		362 mg/l	3 hours	Aquatic microorganisms	Activated sludge
EC_{50}	OECD 202	4.6 mg/l	48 hours	Aquatic invertebrates (Daphnia magna)	

Polyoxypropylenediamine					
Parameter	Method	Value	Exposure time	Species	Environment
LC_{50}		600 mg/l	96 hours	Fish (Cyprinodon variegatus)	
EC_{50}	OECD 202	80 mg/l	48 hours	Aquatic invertebrates (Daphnia magna)	
EC_{50}	OECD 201	15 mg/l	72 hours	Algae (Selenastrum capricornutum)	
EC_{50}	OECD 209	750 mg/l		Aquatic microorganisms	Activated sludge

Chronic toxicity

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine					
Parameter	Method	Value	Exposure time	Species	Environment
NOEC	OECD 210	≥10.9 mg/l	30 days	Fish (Danio rerio)	
NOEC	OECD 211	1.02 mg/l	21 days	Aquatic invertebrates (Daphnia magna)	
NOEC	OECD 222	≥1000 mg/kg of dry substance of soil	56 days	Invertebrates (Eisenia fetida)	

2,4,6-tris(dimethylaminomethyl)phenol					
Parameter	Method	Value	Exposure time	Species	Environment
NOEC		2 mg/l	28 days	Aquatic microorganisms	Activated sludge

Amines, C12-18-(even numbered) and C18-(unsaturated) alkyl					
Parameter	Method	Value	Exposure time	Species	Environment
NOEC	OECD 222	200 mg/kg of dry substance of soil	8 weeks	Invertebrates (Eisenia fetida)	
NOEC	OECD 211	0.013 mg/l	21 days	Aquatic invertebrates (Daphnia magna)	

Phenol, styrenated					
Parameter	Method	Value	Exposure time	Species	Environment
NOEC	OECD 210	0.2 mg/l	96 hours	Fish (Danio rerio)	
NOEC		0.2 mg/l	21 days	Aquatic invertebrates (Daphnia magna)	

12.2. Persistence and degradability

The product is partially biodegradable.

Biodegradability

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine					
Parameter	Method	Value	Exposure time	Environment	Result
		7 %	28 days	Activated sludge	Hardly biodegradable

2,4,6-tris(dimethylaminomethyl)phenol					
Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301D	4 %	28 days	Activated sludge	Hardly biodegradable

Amines, C12-18-(even numbered) and C18-(unsaturated) alkyl					
Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301B	62 %	29 days	Activated sludge	Easily biodegradable

Phenol, styrenated					
Parameter	Method	Value	Exposure time	Environment	Result
	OECD 310	4 %	28 days		Hardly biodegradable

12.3. Bioaccumulative potential

Bioaccumulation is not expected.

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine						
Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow	OECD 117	-0.3				25°C

2,4,6-tris(dimethylaminomethyl)phenol						
Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow		-0.66				21,5°C

Amines, C12-18-(even numbered) and C18-(unsaturated) alkyl						
Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]
BCF		173		Fish		
Log Pow		4.33				25°C

Phenol, styrenated						
Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow	OECD 117	3.03				23,6°C

12.4. Mobility in soil

The product is soluble and mobile in water and soil. Contamination of water courses may occur in the event of rain.

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine				
Parameter	Value	Environment	Temperature	Value determination
Koc	25		20°C	QSAR

Phenol, styrenated				
Parameter	Value	Environment	Temperature	Value determination
Koc	584.7		25°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

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 2735

14.2. UN proper shipping name

AMINES, LIQUID, CORROSIVE, N.O.S. (contains: polyoxypropylenediamine)

14.3. Transport hazard class(es)

8 Corrosive substances

14.4. Packing group

II

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.	**80**
UN number	**2735**
Classification code	C7
Safety signs	8+hazardous for the environment

Road transport - ADR

Special provisions	274
Limited quantities	1 L
Excepted quantities	E2
Packaging	
Packing instructions	P001, IBC02
Mixed packing provisions	MP15
Portable tanks and bulk containers	
Guidelines	T11
Special provisions	TP1, TP27
ADR tank	
Tank code	L4BN
Vehicles for tank carriage	AT
Transport category	2
Tunnel restriction code	(E)

Railway transport - RID

Special provisions	274
Excepted quantities	E2
Packaging	
Packing instructions	P001, IBC02
Mixed packing provisions	MP15
Portable tanks and bulk containers	
Guidelines	T11
Special provisions	TP1, TP27
RID Tanks	
Tank code	L4BN
Transport category	0

Air transport - ICAO/IATA

Packaging instructions for limited amount	Y840
Packaging instructions passenger	851
Cargo packaging instructions	855

Marine transport - IMDG

EmS (emergency plan)	F-A, S-B
MFAG	320

SECTION 15: Regulatory information

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

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

15.2. Chemical safety assessment

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

SECTION 16: Other information

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

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful 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.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a doctor.
P391	Collect spillage.
P501	Dispose of contents/container to according to the instructions of the manufacturer or person authorized to dispose of waste.

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

Acute Tox.	Acute toxicity
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
Eye Dam.	Serious eye damage
Skin Corr.	Skin corrosion
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure

Training guidelines

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

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

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

This safety data sheet replaces version: 1.0 dated 14.02.2023.
Updated sections: 1,8,13,15.

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.