

SAFETY DATA SHEET



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

NEXLER EPOLIS X9 składnik B

Creation date 15th February 2023
Revision date Version 1.0

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

1.1. Product identifier
Substance / mixture NEXLER EPOLIS X9 składnik B
mixture
UFI 3XDK-R0PK-A00A-QRQU

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

A two-component epoxy-bitumen coating that protects mineral and steel substrates against water, sewage and chemically aggressive substances.

Main intended use

PC-CON-5 Construction chemicals

Secondary uses

PC-PNT-3 Paints/coatings - Protective and functional

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.

Acute Tox. 4, H302
Skin Corr. 1A, H314
Skin Sens. 1, H317
Eye Dam. 1, H318
Aquatic Chronic 3, H412

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

Most serious adverse effects on human health and the environment

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

2.2. Label elements

Hazard pictogram



Signal word

Danger

SAFETY DATA SHEET



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

NEXLER EPOLIS X9 składnik B

Creation date 15th February 2023
Revision date Version 1.0

Hazardous substances

benzyl alcohol
3-aminomethyl-3,5,5-trimethylcyclohexylamine
2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine
Phenol, styrenated

Hazard statements

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H412 Harmful 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.
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
Index: 603-057-00-5 CAS: 100-51-6 EC: 202-859-9 Registration number: 01-2119492630-38	benzyl alcohol	30-<50	Acute Tox. 4, H302+H332 Eye Irrit. 2, H319	
Index: 612-067-00-9 CAS: 2855-13-2 EC: 220-666-8 Registration number: 01-2119514687-32	3-aminomethyl-3,5,5-trimethylcyclohexylamine	30-<50	Acute Tox. 4, H302 Skin Corr. 1B, H314 Skin Sens. 1A, H317 Eye Dam. 1, H318 Specific concentration limit: ATE Oral = 1030 mg/kg bw Skin Sens. 1A, H317: C ≥ 0,001 %	
CAS: 25513-64-8 EC: 247-063-2 Registration number: 01-2119560598-25	2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine	10-<20	Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Sens. 1A, H317 Eye Dam. 1, H318	
CAS: 61788-44-1 EC: 262-975-0 Registration number: 01-2119979575-18	Phenol, styrenated	1,0-<2,5	Skin Irrit. 2, H315 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	1

SAFETY DATA SHEET



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

NEXLER EPOLIS X9 składnik B

Creation date	15th February 2023	Version	1.0
Revision date			

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

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

If on skin

Remove contaminated clothes. Take off any rings, watches, bracelets before or during washing if worn in the contaminated areas of the skin. Depending on the situation, call the medical rescue service and always ensure medical treatment. Rinse contaminated areas with a flow of water, lukewarm at best, for 10-30 minutes; do not use any brush, soap or neutralizers. Rinse skin with water or shower. Rinse cautiously with water for several minutes.

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.

SAFETY DATA SHEET



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

NEXLER EPOLIS X9 składnik B

Creation date 15th February 2023
Revision date Version 1.0

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.

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. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. 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. Store locked up. Storage temperature above + 5 ° C required.

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	Systemic chronic effects		

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	0.073 mg/m ³	Local chronic effects		
Workers	Inhalation	0.073 mg/m ³	Local acute effects		
Consumers	Oral	0.526 mg/kg bw/day	Systemic chronic effects		

SAFETY DATA SHEET



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

NEXLER EPOLIS X9 składnik B

Creation date	15th February 2023	Version	1.0
Revision date			

benzyl alcohol

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	22 mg/m ³	Systemic chronic effects		
Workers	Inhalation	110 mg/m ³	Systemic acute effects		
Workers	Dermal	8 mg/kg bw/day	Systemic chronic effects		
Workers	Dermal	40 mg/kg bw/day	Systemic acute effects		
Consumers	Inhalation	5.4 mg/m ³	Systemic chronic effects		
Consumers	Inhalation	27 mg/m ³	Systemic acute effects		
Consumers	Dermal	4 mg/kg bw/day	Systemic chronic effects		
Consumers	Dermal	20 mg/kg bw/day	Systemic acute effects		
Consumers	Oral	4 mg/kg bw/day	Systemic chronic effects		
Consumers	Oral	20 mg/kg bw/day	Systemic acute effects		

Phenol, styrenated

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	7.4 mg/m ³	Systemic chronic effects		
Workers	Dermal	2.1 mg/kg bw/day	Systemic chronic effects		
Consumers	Inhalation	1.31 mg/m ³	Systemic chronic effects		
Consumers	Dermal	0.75 mg/kg bw/day	Systemic chronic effects		
Consumers	Oral	0.75 mg/kg bw/day	Systemic chronic effects		

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		
Seawater	0.01 mg/l		
Microorganisms in wastewater treatment plants	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		

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Route of exposure	Value	Value determination	Source
Drinking water	0.06 mg/l		
Seawater	0.006 mg/l		
Water (intermittent release)	0.23 mg/l		

SAFETY DATA SHEET



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

NEXLER EPOLIS X9 składnik B

Creation date

15th February 2023

Revision date

Version

1.0

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Route of exposure	Value	Value determination	Source
Microorganisms in wastewater treatment plants	3.18 mg/l		
Freshwater sediment	5.784 mg/kg of dry substance of sediment		
Sea sediments	0.578 mg/kg of dry substance of sediment		
Soil (agricultural)	1.121 mg/kg of dry substance of soil		

benzyl alcohol

Route of exposure	Value	Value determination	Source
Drinking water	1 mg/l		
Seawater	0.1 mg/l		
Water (intermittent release)	2.3 mg/l		
Microorganisms in wastewater treatment plants	39 mg/l		
Freshwater sediment	5.27 mg/kg of dry substance of sediment		
Sea sediments	0.527 mg/kg of dry substance of sediment		
Soil (agricultural)	0.456 mg/kg of dry substance of soil		

Phenol, styrenated

Route of exposure	Value	Value determination	Source
Drinking water	4 µg/l		
Water (intermittent release)	46 µg/l		
Seawater	0.4 µg/l		
Microorganisms in wastewater treatment plants	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		

SAFETY DATA SHEET



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

NEXLER EPOLIS X9 składnik B

Creation date 15th February 2023
Revision date Version 1.0

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 or face shield (based on the nature of the work performed). 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

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.

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	>200 °C
Flammability	The product is non-flammable.
Lower and upper explosion limit	not applicable
Flash point	>108 °C
Auto-ignition temperature	not determined
benzyl alcohol (CAS: 100-51-6)	436 °C
Decomposition temperature	not applicable
pH	11-12 (10% solution)
Kinematic viscosity	63 mm ² /s at 22 °C
Solubility in water	partially soluble
Solubility in other solvents	dissolves in most organic solvents
Partition coefficient n-octanol/water (log value)	does not apply to mixtures
Vapour pressure	not determined
2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine (CAS: 25513-64-8)	0,04 hPa at 20 °C
benzyl alcohol (CAS: 100-51-6)	0,07 hPa at 20 °C
Density and/or relative density	
Density	1 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 peroxides, aldehydes, ketones, epoxy resins.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

SAFETY DATA SHEET



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

NEXLER EPOLIS X9 składnik B

Creation date 15th February 2023
Revision date Version 1.0

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. Organic acids (i.e. acetic acid, citric acid etc.). Mineral Acids. 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

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

Acute toxicity

Harmful 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

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀	OECD 401	1030 mg/kg bw		Rat (Rattus norvegicus)	M
Inhalation (aerosols)	LC ₅₀	EPA OPPTS 870.1300	>5.01 mg/l of air	4 hour	Rat (Rattus norvegicus)	F/M
Dermal	LD ₅₀	OECD 402	>2000 mg/kg bw	24 hour	Rat (Rattus norvegicus)	F/M
Oral	ATE		1030 mg/kg bw			

benzyl alcohol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀		1620 mg/kg bw		Rat (Rattus norvegicus)	M
Inhalation	LD ₅₀	OECD 403	>4.178 mg/l of air	4 hour	Rat (Rattus norvegicus)	F/M
Dermal	LD ₅₀	EPA OTS 798.1100	>2000 mg/kg bw	24 hour	Rabbit	F/M

Phenol, styrenated

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Dermal	LD ₅₀	OECD 402	>2000 mg/kg bw	24 hour	Rat (Rattus norvegicus)	F/M
Oral	LD ₅₀	OECD 423	>2000 mg/kg bw		Rat (Rattus norvegicus)	F

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

SAFETY DATA SHEET



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

NEXLER EPOLIS X9 składnik B

Creation date

15th February 2023

Revision date

Version

1.0

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Route of exposure	Result	Method	Exposure time	Species
Dermal	Corrosive		24 hour	Rabbit

benzyl alcohol

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

Serious eye damage/irritation

Causes serious eye damage. 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

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Route of exposure	Result	Method	Exposure time	Species
Eye	Corrosive, Serious eye damage	OECD 405		Rabbit

benzyl alcohol

Route of exposure	Result	Method	Exposure time	Species
Eye	Irritating	OECD 405	24 hour	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

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Route of exposure	Result	Method	Exposure time	Species	Sex
Dermal	Sensitizing	OECD 406	24 hour	Guinea-pig (Cavia aperea f. porcellus)	M

Phenol, styrenated

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

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.

SAFETY DATA SHEET



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

NEXLER EPOLIS X9 składnik B

Creation date	15th February 2023	Version	1.0
Revision date			

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 week	Rat (Rattus norvegicus)	F/M
Oral	NOAEL			10 mg/kg bw/day	13 week	Rat (Rattus norvegicus)	F/M

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	NOAEL	Systemic effects	OECD 408	59 mg/kg bw/day	13 week	Rat (Rattus norvegicus)	F/M

benzyl alcohol

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	NOAEL	Systemic effects	OECD 451	400 mg/kg bw/day	103 week	Rat (Rattus norvegicus)	F/M
Inhalation (aerosols)	NOAEC	Local effects, Systemic effects	OECD 412	1072 mg/m ³ of air	4 week	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 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

Harmful to aquatic life with long lasting effects.

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine

Parameter	Method	Value	Exposure time	Species	Environment
LC ₅₀		174 mg/l	48 hour	Fishes (Leuciscus idus)	
EC ₅₀		31.5 mg/l	24 hour	Aquatic invertebrates (Daphnia magna)	
ErC ₅₀	OECD 201	43.5 mg/l	72 hour	Algae (Selenastrum capricornutum)	
LOEC	OECD 201	40 mg/l	72 hour	Algae (Selenastrum capricornutum)	
NOEC	OECD 201	16 mg/l	72 hour	Algae (Selenastrum capricornutum)	
EC ₅₀		89 mg/l	17 hour	Aquatic microorganisms (Pseudomonas putida)	
NOEC	OECD 216	1000 mg/kg of dry substance of soil	28 day	Microorganisms	Activated sludge

SAFETY DATA SHEET



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

NEXLER EPOLIS X9 składnik B

Creation date	15th February 2023	Version	1.0
Revision date			

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Parameter	Method	Value	Exposure time	Species	Environment
LC ₅₀		110 mg/l	96 hour	Fishes (Leuciscus idus)	
EC ₅₀	OECD 202	23 mg/l	48 hour	Aquatic invertebrates (Daphnia magna)	
ErC ₅₀	EU C.3 (87/302/EEC)	>50 mg/l	72 hour	Algae (Desmodesmus subspicatus)	
NOEC		1120 mg/l	18 hour	Aquatic microorganisms (Pseudomonas putida)	
NOEC	EU C.3 (87/302/EEC)	11.2 mg/l	72 hour	Algae (Desmodesmus subspicatus)	

benzyl alcohol

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

Phenol, styrenated

Parameter	Method	Value	Exposure time	Species	Environment
LC ₅₀		5.6 mg/l	96 hour	Fishes (Danio rerio)	
EL 50	OECD 201	20.42 mg/l	72 hour	Algae (Selenastrum capricornutum)	
EC ₅₀		362 mg/l	3 hour	Aquatic microorganisms	Activated sludge
EC ₅₀	OECD 202	4.6 mg/l	48 hour	Aquatic invertebrates (Daphnia magna)	

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 day	Fishes (Danio rerio)	
NOEC	OECD 211	1.02 mg/l	21 day	Aquatic invertebrates (Daphnia magna)	
NOEC	OECD 222	≥1000 mg/kg of dry substance of soil	56 day	Invertebrates (Eisenia fetida)	

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Parameter	Method	Value	Exposure time	Species	Environment
NOEC	OECD 202	3 mg/l	21 day	Aquatic invertebrates (Daphnia magna)	

SAFETY DATA SHEET



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

NEXLER EPOLIS X9 składnik B

Creation date	15th February 2023	Version	1.0
Revision date			

benzyl alcohol

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

Phenol, styrenated

Parameter	Method	Value	Exposure time	Species	Environment
NOEC	OECD 210	0.2 mg/l	96 hour	Fishes (Danio rerio)	
NOEC		0.2 mg/l	21 day	Aquatic invertebrates (Daphnia magna)	

12.2. Persistence and degradability

Biodegradability

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine

Parameter	Method	Value	Exposure time	Environment	Result
		7 %	28 day	Activated sludge	Hardly biodegradable

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Parameter	Method	Value	Exposure time	Environment	Result
		8 %	28 day	Activated sludge	Hardly biodegradable

benzyl alcohol

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

Phenol, styrenated

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 310	4 %	28 day		Hardly biodegradable

The product is partially biodegradable.

12.3. Bioaccumulative potential

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

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow	OECD 107	0.99				23°C

benzyl alcohol

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

Phenol, styrenated

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

Bioaccumulation is not expected.

12.4. Mobility in soil

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine

Parameter	Value	Environment	Temperature	Value determination
Koc	25		20°C	QSAR

SAFETY DATA SHEET



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

NEXLER EPOLIS X9 składnik B

Creation date 15th February 2023
Revision date Version 1.0

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Parameter	Value	Environment	Temperature	Value determination
Koc	928		20°C	

benzyl alcohol

Parameter	Value	Environment	Temperature	Value determination
Koc	15.7		20°C	

Phenol, styrenated

Parameter	Value	Environment	Temperature	Value determination
Koc	584.7		25°C	

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

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: 3-aminomethyl-3,5,5-trimethylcyclohexylamine)

14.3. Transport hazard class(es)

8 Corrosive substances

14.4. Packing group

III - substances presenting low danger

14.5. Environmental hazards

No.

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

SAFETY DATA SHEET



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

NEXLER EPOLIS X9 składnik B

Creation date 15th February 2023
Revision date Version 1.0

Additional information

Hazard identification No.
UN number
Classification code
Safety signs

80
2735
C7
8



Road transport - ADR

Special provisions 274
Limited quantities 5 L
Excepted quantities E1

Packaging

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

Portable tanks and bulk containers

Guidelines T7
Special provisions TP1, TP28

ADR tank

Tank code L4BN
Vehicles for tank carriage AT
Transport category 3
Tunnel restriction code (E)

Special provision for

packages V12

Railway transport - RID

Special provisions 274
Excepted quantities E1

Packaging

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

Portable tanks and bulk containers

Guidelines T7
Special provisions TP1, TP28

RID Tanks

Tank code L4BN
Transport category 0

Special provision for

packages W 12

Air transport - ICAO/IATA

Packaging instructions for limited amount Y841
Packaging instructions passenger 852
Cargo packaging instructions 856

Marine transport - IMDG

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

SAFETY DATA SHEET



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

NEXLER EPOLIS X9 składnik B

Creation date 15th February 2023
Revision date Version 1.0

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

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H302+H332	Harmful if swallowed or if inhaled.

Guidelines for safe handling used in the safety data sheet

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
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.
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
CE ₅₀	Concentration of a substance when it is affected 50% of the population
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
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

SAFETY DATA SHEET



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

NEXLER EPOLIS X9 składnik B

Creation date	15th February 2023	Version	1.0
Revision date			

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
LOAEL	Lowest observed adverse effect level
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
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UE	European Union
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
vPvB	Very Persistent and very Bioaccumulative
WE	Identification code for each substance listed in EINECS
Acute Tox.	Acute toxicity
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization

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.

SAFETY DATA SHEET



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

NEXLER EPOLIS X9 składnik B

Creation date

15th February 2023

Revision date

Version

1.0