

# SAFETY DATA SHEET



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

## Nexler EPOLIS WE-200 składnik A

Creation date	17th December 2020	Version	2.2
Revision date	21st September 2022		

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

**1.1. Product identifier**  
Substance / mixture  
UFI

Nexler EPOLIS WE-200 składnik A  
mixture  
KERJ-S0QQ-4002-M5FE

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

Colored, solvent-free, two-component, water-dispersible epoxy composition intended for coating protection of mineral substrates.

**Main intended use**

PC-CON-5 Construction chemicals

**Mixture uses advised against**

The product should not be used in ways other than those referred in Section 1.

**1.3. Details of the supplier of the safety data sheet**

**Supplier**

Name or trade name	IZOHAN sp. z o.o.
Address	Łużycka 2, Gdynia, 81-963 Poland
Identification number (CRN)	191528483
VAT Reg No	PL5862073821
Phone	+48 58 781 45 85
E-mail	info@izohan.eu
Web address	www.izohan.eu

**Competent person responsible for the safety data sheet**

Name	IZOHAN sp. z o.o.
E-mail	info@izohan.eu

**1.4. Emergency telephone number**

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

### SECTION 2: Hazards identification

**2.1. Classification of the substance or mixture**

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

The mixture is classified as dangerous.

Skin Corr. 1B, H314  
Skin Sens. 1, H317  
Eye Dam. 1, H318

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

**Most serious adverse effects on human health and the environment**

Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage.

**2.2. Label elements**

**Hazard pictogram**



**Signal word**

Danger

**Hazardous substances**

3-aminomethyl-3,5,5-trimethylcyclohexylamine

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### Hazard statements

H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.

### 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.  
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
CAS: 2086662-49-7 Registration number: - [REACH art. 2 (9)]	Formaldehyde, polymer with N1-(2-aminoethyl)-1,2-ethanediamine, 5-amino-1,3,3-trimethylcyclohexanemethanamine, 2-(chloromethyl)oxirane, 4,4'-(1-methylethylidene)bis[phenol] and poly(ethylene glycol)	5-15	Skin Irrit. 2, H315 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	2,5-6,0	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: 52470-47-0 Registration number: - [REACH art. 2 (9)]	Formaldehyde, polymer with N-(2-aminoethyl)-1,2-ethanediamine	1-3	Skin Irrit. 2, H315 Eye Irrit. 2, H319	
CAS: 129813-66-7 EC: 929-018-5 Registration number: 01-2119475608-26	Hydrocarbons, C10-C13, n-alkanes, <2% aromatics	0,5-1,2	Asp. Tox. 1, H304 EUH066	2
Index: 603-108-00-1 CAS: 78-83-1 EC: 201-148-0 Registration number: 01-2119484609-23	isobutanol	0,1-0,2	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335, H336	1

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 104-76-7 EC: 203-234-3 Registration number: 01-2119487289-20	2-ethylhexan-1-ol	0,03-0,06	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4, H332 STOT SE 3, H335	1

### Notes

- 1 A substance for which exposure limits are set.
- 2 Substance of unknown or variable composition, complex reaction products or biological materials - UVCB.

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If 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.

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### 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. 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. 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.

#### 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 required between +10 ° C and +25 ° C.

#### 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
isobutanol (CAS: 78-83-1)	WEL 8h	154 mg/m <sup>3</sup>
	WEL 8h	50 ppm
	WEL 15min	231 mg/m <sup>3</sup>
	WEL 15min	75 ppm
2-ethylhexan-1-ol (CAS: 104-76-7)	WEL 8h	5,4 mg/m <sup>3</sup>
	WEL 8h	1 ppm

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### United Kingdom

### EH40/2005 Workplace exposure limits (Third edition, published 2018)

Substance name (component)	Type	Value
isobutanol (CAS: 78-83-1)	WEL 8h	154 mg/m <sup>3</sup>
	WEL 8h	50 ppm
	WEL 15min	231 mg/m <sup>3</sup>
	WEL 15min	75 ppm

### DNEL

2-ethylhexan-1-ol

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Dermal	23 mg/kg bw/day	Systemic chronic effects		
Workers	Inhalation	53.2 mg/m <sup>3</sup>	Local chronic effects		
Workers	Inhalation	12.8 mg/m <sup>3</sup>	Systemic chronic effects		
Consumers	Oral	1.1 mg/kg bw/day	Systemic chronic effects		
Consumers	Dermal	11.4 mg/kg bw/day	Systemic chronic effects		
Consumers	Inhalation	2.3 mg/m <sup>3</sup>	Systemic chronic effects		
Consumers	Inhalation	26.6 mg/m <sup>3</sup>	Local acute effects		
Workers	Inhalation	53.2 mg/m <sup>3</sup>	Local acute effects		
Consumers	Inhalation	26.6 mg/m <sup>3</sup>	Local chronic effects		

3-aminomethyl-3,5,5-trimethylcyclohexylamine

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

isobutanol

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	310 mg/m <sup>3</sup>	Local chronic effects		
Consumers	Oral	25 mg/kg bw/day	Systemic chronic effects		
Consumers	Inhalation	55 mg/m <sup>3</sup>	Local chronic effects		

### PNEC

2-ethylhexan-1-ol

Route of exposure	Value	Value determination	Source
Drinking water	0.017 mg/l		
Seawater	0.0017 mg/l		
Water (intermittent release)	0.17 mg/l		

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### 2-ethylhexan-1-ol

Route of exposure	Value	Value determination	Source
Freshwater sediment	0.284 mg/kg of dry substance of sediment		
Sea sediments	0.028 mg/kg of dry substance of sediment		
Soil (agricultural)	0.047 mg/kg of dry substance of soil		
Microorganisms in wastewater treatment plants	10 mg/l		
Food chain	55 mg/kg of food		

### 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		
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		

### isobutanol

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

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### 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).

#### 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.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	According to the offer
Odour	weak
Melting point/freezing point	-1 °C
Boiling point or initial boiling point and boiling range	101 °C
Flammability	The product is non-flammable.
Lower and upper explosion limit	not applicable
Flash point	determination is not technically possible
Auto-ignition temperature	not determined
isobutanol (CAS: 78-83-1)	400 °C
Decomposition temperature	not applicable
pH	9-10 (10% solution)
Kinematic viscosity	560 mm <sup>2</sup> /s at 20 °C
Solubility in water	partially soluble
Partition coefficient n-octanol/water (log value)	does not apply to mixtures
Vapour pressure	not determined
isobutanol (CAS: 78-83-1)	12 hPa at 20 °C
water (CAS: 7732-18-5)	23,4 hPa at 20 °C
Density and/or relative density	
Density	1,39 g/cm <sup>3</sup> at 22 °C
Relative vapour density	not determined
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.

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### 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 available data the classification criteria are not met.

#### 2-ethylhexan-1-ol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD <sub>50</sub>	OECD 401	2047 mg/kg bw		Rat ( <i>Rattus norvegicus</i> )	M
Dermal	LD <sub>50</sub>	OECD 402	>3000 mg/kg bw	24 hour	Rat ( <i>Rattus norvegicus</i> )	F/M
Inhalation	LC <sub>50</sub>	OECD 403	>0.89 mg/l of air	4 hour	Rat ( <i>Rattus norvegicus</i> )	F/M

#### 3-aminomethyl-3,5,5-trimethylcyclohexylamine

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

#### Hydrocarbons, C10-C13, n-alkanes, <2% aromatics

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD <sub>50</sub>	OECD 401	>15000 mg/kg bw		Rat ( <i>Rattus norvegicus</i> )	F/M
Dermal	LD <sub>50</sub>	OECD 402	>3160 mg/kg bw		Rabbit	F/M
Inhalation (vapor)	LC <sub>50</sub>	OECD 403	>6100 mg/m <sup>3</sup>	4 hour	Rat ( <i>Rattus norvegicus</i> )	F/M

#### isobutanol

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

#### Irritation

#### 2-ethylhexan-1-ol

Route of exposure	Result	Exposure time	Species
Inhalation	Irritating		Human



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Route of exposure	Result	Exposure time	Species
Inhalation	Irritating		

**Skin corrosion/irritation**

Causes severe skin burns and eye damage.

2-ethylhexan-1-ol

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

3-aminomethyl-3,5,5-trimethylcyclohexylamine

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

Formaldehyde, polymer with N-(2-aminoethyl)-1,2-ethanediamine

Route of exposure	Result	Method	Exposure time	Species
Dermal	Irritating			

Formaldehyde, polymer with N1-(2-aminoethyl)-1,2-ethanediamine, 5-amino-1,3,3-trimethylcyclohexanemethanamine, 2-(chloromethyl)oxirane, 4,4'-(1-methylethylidene)bis[phenol] and poly(ethylene glycol)

Route of exposure	Result	Method	Exposure time	Species
Dermal	Irritating			

isobutanol

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

**Serious eye damage/irritation**

Causes severe skin burns and eye damage.

2-ethylhexan-1-ol

Route of exposure	Result	Method	Exposure time	Species
Eye	Irritating	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

Formaldehyde, polymer with N-(2-aminoethyl)-1,2-ethanediamine

Route of exposure	Result	Method	Exposure time	Species
Eye	Irritating			

Formaldehyde, polymer with N1-(2-aminoethyl)-1,2-ethanediamine, 5-amino-1,3,3-trimethylcyclohexanemethanamine, 2-(chloromethyl)oxirane, 4,4'-(1-methylethylidene)bis[phenol] and poly(ethylene glycol)

Route of exposure	Result	Method	Exposure time	Species
Eye	Irritating			

isobutanol

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

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### Respiratory or skin sensitisation

May cause an allergic skin reaction.

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

### Germ cell mutagenicity

Based on available data the classification criteria are not met.

### Carcinogenicity

Based on available data the classification criteria are not met.

### Reproductive toxicity

Based on available data the classification criteria are not met.

### Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

### Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

### Repeated dose toxicity

2-ethylhexan-1-ol

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	NOAEL	Systemic effects	OECD 408	250 mg/kg bw/day	90 day	Rat (Rattus norvegicus)	F/M
Inhalation	NOAEC	Systemic effects	OECD 413	638.4 mg/m <sup>3</sup>	90 day	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

Hydrocarbons, C10-C13, n-alkanes, <2% aromatics

Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	NOAEL	Systemic effects	OECD 408	≥5000 mg/kg bw/day	90 day	Rat (Rattus norvegicus)	F/M
Inhalation (vapor)	NOAEC	Systemic effects	OECD 413	≥10400 mg/m <sup>3</sup> of air	13 week	Rat (Rattus norvegicus)	F/M

isobutanol

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

### 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

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### Acute toxicity

#### 2-ethylhexan-1-ol

Parameter	Method	Value	Exposure time	Species	Environment
LC <sub>50</sub>	EU C.1 (84/449/EEC)	17.1 mg/l	96 hour	Fishes (Leuciscus idus)	
EC <sub>50</sub>	EU C.2 (84/449/EEC)	39 mg/l	48 hour	Aquatic invertebrates (Daphnia magna)	
EC <sub>50</sub>		16.6 mg/l	72 hour	Algae (Desmodesmus subspicatus)	

#### 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Parameter	Method	Value	Exposure time	Species	Environment
LC <sub>50</sub>		110 mg/l	96 hour	Fishes (Leuciscus idus)	
EC <sub>50</sub>	OECD 202	23 mg/l	48 hour	Aquatic invertebrates (Daphnia magna)	
ErC <sub>50</sub>	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)	

#### Hydrocarbons, C10-C13, n-alkanes, <2% aromatics

Parameter	Method	Value	Exposure time	Species	Environment
LL 50	OECD 203	10-30 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EL 50		>100 mg/l	48 hour	Aquatic invertebrates (Daphnia magna)	
EL 50	OECD 201	>1000 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	

#### isobutanol

Parameter	Method	Value	Exposure time	Species	Environment
LC <sub>50</sub>		1430 mg/l	96 hour	Fishes (Pimephales promelas)	
EC <sub>50</sub>		1100 mg/l	48 hour	Aquatic invertebrates (Daphnia pulex)	
EC <sub>50</sub>	OECD 201	1799 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	
IC <sub>50</sub>		>1000 mg/l	16 hour	Aquatic microorganisms	Activated sludge

### Chronic toxicity

#### 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)	

## 12.2. Persistence and degradability

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### Biodegradability

#### 2-ethylhexan-1-ol

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301C	79-99.9 %	2 week		Easily biodegradable

#### 3-aminomethyl-3,5,5-trimethylcyclohexylamine

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

#### Hydrocarbons, C10-C13, n-alkanes, <2% aromatics

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301F	80 %	28 day		Easily biodegradable

#### isobutanol

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

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

### 12.3. Bioaccumulative potential

#### 2-ethylhexan-1-ol

Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow	OECD 117	2.9				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

#### isobutanol

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

Bioaccumulation is not expected.

### 12.4. Mobility in soil

#### 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Parameter	Value	Environment	Temperature
Koc	928		20°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

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### 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

#### Additional information

Hazard identification No.

80

UN number

2735

Classification code

C7

Safety signs

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

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### 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
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### 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

## SECTION 15: Regulatory information

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

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 as amended. Environmental Protection Act 1990 as amended. Clean Air Act 1993 as amended. Public health act 1961. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

### 15.2. Chemical safety assessment

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

## SECTION 16: Other information

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

H226	Flammable liquid and vapour.
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.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

### 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.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

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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.

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

EUH066 Repeated exposure may cause skin dryness or cracking.

### Other important information about human health protection

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

### Key to abbreviations and acronyms used in the safety data sheet

ADR European agreement concerning the international carriage of dangerous goods by road  
BCF Bioconcentration Factor  
CAS Chemical Abstracts Service  
CE<sub>50</sub> 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<sub>50</sub> Effective Loading for 50% of the tested organisms  
EmS Emergency plan  
EuPCS European Product Categorisation System  
IATA International Air Transport Association  
IBC International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals  
IC<sub>50</sub> 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<sub>50</sub> Lethal concentration of a substance in which it can be expected death of 50% of the population  
LD<sub>50</sub> Lethal dose of a substance in which it can be expected death of 50% of the population  
LL<sub>50</sub> Lethal Loading for 50% of tested organisms  
log Kow Octanol-water partition coefficient  
LZO Volatile organic compounds  
MARPOL International Convention for the Prevention of Pollution from Ships  
NOAEC No observed adverse effect concentration  
NOAEL No observed adverse effect level  
NOEC No observed effect concentration  
OEL Occupational Exposure Limits  
PBT Persistent, Bioaccumulative and Toxic  
PNEC Predicted no-effect concentration  
ppm Parts per million  
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals  
RID Agreement on the transport of dangerous goods by rail  
UE European Union  
UN Four-figure identification number of the substance or article taken from the UN Model Regulations  
UVCB Substances of unknown or variable composition, complex reaction products or biological materials  
vPvB Very Persistent and very Bioaccumulative  
WE Identification code for each substance listed in EINECS

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Acute Tox.	Acute toxicity
Asp. Tox.	Aspiration hazard
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
Skin Corr.	Skin corrosion
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 2.1 dated 07.07.2022.

Updated sections: 3,9,10,13,15.

### 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.