

# SAFETY DATA SHEET



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

## NEXLER Izofol Roof

Creation date 10th January 2022  
Revision date Version 1.0

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

**1.1. Product identifier** NEXLER Izofol Roof  
Substance / mixture mixture

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

The liquid foil is used to perform protective and decorative coatings in construction, to secure roofing and flashing, and to perform seamless roofing. It can be used as a protective coating for concrete elements, walls, plaster, and asbestos cement.

**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 not classified as dangerous according to Regulation (EC) No 1272/2008.

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

**2.2. Label elements**

**Precautionary statements**

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P264	Wash hands and exposed parts of the body thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501	Dispose of contents/container to according to the instructions of the manufacturer or person authorized to dispose of waste.

**Supplemental information**

EUH208 Contains reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1). May produce an allergic reaction.

**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.

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### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

Mixture of substances and additives specified below.

**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: 9004-98-2	Alcohols, C16-18 and C18- unsaturated, ethoxylated	1,0-1,2	Skin Irrit. 2, H315	5
CAS: 64742-48-9 EC: 919-857-5 Registration number: 01-2119463258-33	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	0,7-0,9	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 EUH066	5
Index: 019-002-00-8 CAS: 1310-58-3 EC: 215-181-3 Registration number: 01-2119487136-33	potassium hydroxide	0,10-0,13	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1A, H314 Specific concentration limit: Skin Irrit. 2, H315: 0,5 % ≤ C < 2 % Skin Corr. 1A, H314: C ≥ 5 % Skin Corr. 1B, H314: 2 % ≤ C < 5 % Eye Irrit. 2, H319: 0,5 % ≤ C < 2 %	3
Index: 603-027-00-1 CAS: 107-21-1 EC: 203-473-3 Registration number: 01-2119456816-28	ethanediol	0,0015-0,0150	Acute Tox. 4, H302 STOT RE 2, H373	3
Index: 605-001-00-5 CAS: 50-00-0 EC: 200-001-8 Registration number: 01-2119488953-20	formaldehyde ...%	0,0015-0,0045	Acute Tox. 3, H301, H311, H331 Skin Corr. 1B, H314 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350 Specific concentration limit: Skin Corr. 1B, H314: C ≥ 25 % Skin Irrit. 2, H315: 5 % ≤ C < 25 % Skin Sens. 1, H317: C ≥ 0,2 % Eye Irrit. 2, H319: 5 % ≤ C < 25 % STOT SE 3, H335: C ≥ 5 %	1, 2, 3, 4

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 613-167-00-5 CAS: 55965-84-9 EC: 911-418-6 Registration number: 01-2120764691-48	reaction mass of: 5-chloro-2- methyl-4- isothiazolin-3-one [EC no. 247-500-7]and 2 -methyl-2H -isothiazol-3- one [EC no. 220- 239-6] (3:1)	0,0009- 0,0014	Acute Tox. 3, H301 Acute Tox. 2, H310+H330 Skin Corr. 1C, H314 Skin Sens. 1A, H317 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) EUH071 Specific concentration limit: Eye Irrit. 2, H319: $0,06 \% \leq C < 0,6 \%$ Skin Sens. 1A, H317: $C \geq 0,0015 \%$ Skin Irrit. 2, H315: $0,06 \% \leq C < 0,6 \%$ Skin Corr. 1C, H314: $C \geq 0,6 \%$ Eye Dam. 1, H318: $C \geq 0,6 \%$	1

### Notes

- Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.
- Note D: Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3 of Annex VI to Regulation (EC) No 1272/2008. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier who places such a substance on the market must state on the label the name of the substance followed by the words "non-stabilised".
- Substance with a Union workplace exposure limit.
- The use of the substance is restricted by Annex XVII of REACH Regulation
- Substance of unknown or variable composition, complex reaction products or biological materials - UVCB.

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

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

##### If inhaled

Terminate the exposure immediately; move the affected person to fresh air.

##### If on skin

Remove contaminated clothes.

##### 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.

##### If swallowed

Rinse out the mouth with clean water. In the event of issues, find medical help.

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

##### If inhaled

Not expected.

##### If on skin

Not expected.

##### If in eyes

Not expected.

##### If swallowed

Not expected.

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### 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

Accommodate extinguishing components to the location of fire.

#### Unsuitable extinguishing media

not available

### 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 chemical resistant gloves. Use a self-contained breathing apparatus and full-body protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Follow the instructions in the Sections 7 and 8.

### 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

After removal of the product, wash the contaminated site with plenty of water.

### 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. 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, original containers in a dedicated, cool, dry and well ventilated place. 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 substances for which occupational exposure limits are set.

#### United Kingdom

#### EH40/2005 Workplace exposure limits (Fourth Edition 2020)

Substance name (component)	Type	Value	Note
potassium hydroxide (CAS: 1310-58-3)	WEL 15min	2 mg/m <sup>3</sup>	
ethanediol (CAS: 107-21-1)	WEL 8h	10 mg/m <sup>3</sup>	particulate, Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.
	WEL 8h	52 mg/m <sup>3</sup>	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity., vapour

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### United Kingdom

### EH40/2005 Workplace exposure limits (Fourth Edition 2020)

Substance name (component)	Type	Value	Note
ethanediol (CAS: 107-21-1)	WEL 8h	20 ppm	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity., vapour
	WEL 15min	104 mg/m <sup>3</sup>	
	WEL 15min	40 ppm	
formaldehyde ...% (CAS: 50-00-0)	WEL 8h	2,5 mg/m <sup>3</sup>	
	WEL 8h	2 ppm	
	WEL 15min	2,5 mg/m <sup>3</sup>	
	WEL 15min	2 ppm	

### DNEL

ethanediol

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Workers	Inhalation	35 mg/m <sup>3</sup>	Local chronic effects		
Workers	Dermal	106 mg/kg bw/day	Systemic chronic effects		
Consumers	Inhalation	7 mg/m <sup>3</sup>	Local chronic effects		
Consumers	Dermal	53 mg/kg bw/day	Systemic chronic effects		

formaldehyde ...%

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Workers	Inhalation	9 mg/m <sup>3</sup>	Systemic chronic effects		
Workers	Inhalation	0.375 mg/m <sup>3</sup>	Local chronic effects		
Workers	Inhalation	0.75 mg/m <sup>3</sup>	Local acute effects		
Workers	Dermal	240 mg/kg bw/day	Systemic chronic effects		
Workers	Dermal	0.037 mg/cm <sup>2</sup>	Local chronic effects		
Consumers	Inhalation	3.2 mg/m <sup>3</sup>	Systemic chronic effects		
Consumers	Inhalation	0.1 mg/m <sup>3</sup>	Local chronic effects		
Consumers	Dermal	102 mg/kg bw/day	Systemic chronic effects		
Consumers	Dermal	0.012 mg/cm <sup>2</sup>	Local chronic effects		
Consumers	Oral	4.1 mg/kg bw/day	Systemic chronic effects		

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Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Workers	Inhalation	871 mg/m <sup>3</sup>	Systemic chronic effects		
Workers	Dermal	208 mg/kg bw/day	Systemic chronic effects		
Consumers	Oral	125 mg/kg bw/day	Systemic chronic effects		
Consumers	Inhalation	185 mg/m <sup>3</sup>	Systemic chronic effects		
Consumers	Dermal	125 mg/kg bw/day	Systemic chronic effects		

potassium hydroxide

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Workers	Inhalation	1 mg/m <sup>3</sup>	Systemic chronic effects		
Consumers	Inhalation	1 mg/m <sup>3</sup>	Systemic chronic effects		

reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1)

Workers / consumers	Route of exposure	Value	Effect	Determining method	Source
Workers	Inhalation	0.02 mg/m <sup>3</sup>	Local chronic effects		
Workers	Inhalation	0.04 mg/m <sup>3</sup>	Local acute effects		
Consumers	Inhalation	0.02 mg/m <sup>3</sup>	Local chronic effects		
Consumers	Inhalation	0.04 mg/m <sup>3</sup>	Local acute effects		
Consumers	Oral	0.09 mg/kg bw/day	Systemic chronic effects		
Consumers	Oral	0.11 mg/kg bw/day	Systemic acute effects		

### PNEC

ethanediol

Route of exposure	Value	Determining method	Source
Drinking water	10 mg/l		
Seawater	1 mg/l		
Microorganisms in wastewater treatment plants	199.5 mg/l		
Freshwater sediment	37 mg/kg of dry substance of sediment		
Sea sediments	3.7 mg/kg of dry substance of sediment		
Soil (agricultural)	1.53 mg/kg of dry substance of soil		

formaldehyde ...%

Route of exposure	Value	Determining method	Source
Drinking water	0.44 mg/l		
Seawater	0.44 mg/l		
Microorganisms in wastewater treatment plants	0.19 mg/l		

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formaldehyde ...%

Route of exposure	Value	Determining method	Source
Freshwater sediment	2.3 mg/kg of dry substance of sediment		
Sea sediments	2.3 mg/kg of dry substance of sediment		
Soil (agricultural)	0.2 mg/kg of dry substance of soil		
Water (intermittent release)	4.44 mg/l		

reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Route of exposure	Value	Determining method	Source
Drinking water	3.39 µg/l		
Seawater	3.39 µg/l		
Microorganisms in wastewater treatment plants	0.23 mg/l		
Freshwater sediment	0.027 mg/kg of dry substance of sediment		
Sea sediments	0.027 mg/kg of dry substance of sediment		
Soil (agricultural)	0.01 mg/kg of dry substance of soil		

### 8.2. Exposure controls

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

#### Eye/face protection

Protective goggles.

#### Skin protection

When handling in long-term or repeatedly, use protective gloves. Other protection: protective workwear.

#### 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	characteristic
Melting point/freezing point	0 °C
Boiling point or initial boiling point and boiling range	100 °C
Flammability	non-flammable
Lower and upper explosion limit	data not available
Flash point	not applicable
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	8 (undiluted)

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Kinematic viscosity data not available  
Viscosity 20000 mPas  
Solubility in water soluble  
Solubility in other solvents dissolves in most organic solvents  
Partition coefficient n-octanol/water (log value) data not available  
Vapour pressure data not available  
Density and/or relative density  
Density 1,2-1,3 g/cm<sup>3</sup> at 22 °C

### 9.2. Other information

Appearance semi-liquid mass  
Explosive properties The product does not have explosive properties.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The mixture is not reactive.

### 10.2. Chemical stability

The product is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Unknown.

### 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

### 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

### 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

## 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.  
ethanediol

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>	OECD 401	7712 mg/kg bw		Rat (Rattus norvegicus)	F/M
Inhalation (dust/mist)	LC <sub>50</sub>		>2.5 mg/l	6 hour	Rat (Rattus norvegicus)	F/M
Dermal	LD <sub>50</sub>		10600 mg/kg		Rabbit	

formaldehyde ...%

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>	OECD 401	460 mg/kg bw		Rat (Rattus norvegicus)	M
Inhalation (gases)	LC <sub>50</sub>	OECD 403	<463 ppm	4 hour	Rat (Rattus norvegicus)	F/M

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>	OECD 401	>5000 mg/kg bw		Rat (Rattus norvegicus)	F/M



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Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Inhalation	LC <sub>50</sub>	OECD 403	>5000 mg/m <sup>3</sup>	8 hour	Rat (Rattus norvegicus)	M
Dermal	LD <sub>50</sub>	OECD 402	>2000 mg/kg bw	24 hour	Rabbit	

potassium hydroxide

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>		333 mg/kg		Rat (Rattus norvegicus)	

reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1)

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex
Oral	LD <sub>50</sub>		64 mg/kg bw		Rat (Rattus norvegicus)	
Inhalation	LC <sub>50</sub>		0.171 mg/l of air	4 hour	Rat (Rattus norvegicus)	
Dermal	LD <sub>50</sub>		87 mg/kg bw		Rabbit	M

### Skin corrosion/irritation

Based on available data the classification criteria are not met.

Alcohols, C16-18 and C18- unsaturated, ethoxylated

Route of exposure	Result	Method	Time of exposure	Species
Dermal	Irritating			

formaldehyde ...%

Route of exposure	Result	Method	Time of exposure	Species
Dermal	Corrosive			

potassium hydroxide

Route of exposure	Result	Method	Time of exposure	Species
Dermal	Corrosive	OECD 404		Rabbit

reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1)

Route of exposure	Result	Method	Time of exposure	Species
Dermal	Corrosive	OECD 404		

### Serious eye damage/irritation

Based on available data the classification criteria are not met.

potassium hydroxide

Route of exposure	Result	Method	Time of exposure	Species
Eye	Corrosive	OECD 405		Rabbit

reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1)

Route of exposure	Result	Method	Time of exposure	Species
Eye	Serious eye damage			

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### Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

formaldehyde ...%

Route of exposure	Result	Time of exposure	Species	Sex
Dermal	Sensitizing			

reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1)

Route of exposure	Result	Time of exposure	Species	Sex
Dermal	Sensitizing			

### Germ cell mutagenicity

Based on available data the classification criteria are not met.

formaldehyde ...%

Result	Method	Time of exposure	Specific target organ	Species	Sex
Positive without metabolic activation, Positive with metabolic activation	OECD 471			Salmonella typhimurium	
Positive without metabolic activation, Positive with metabolic activation	OECD 473		Ovary	Chinese hamster (Cricetulus barabensis)	F

### 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

ethanediol

Route of exposure	Parameter	Result	Method	Value	Time of exposure	Species	Sex
Dermal	NOAEL			3549 mg/kg	10 day	Mouse	F
Oral	NOEL	Systemic effects	OECD 408	150 mg/kg bw/day	16 week	Rat (Rattus norvegicus)	M
Dermal	NOAEL	Systemic effects	OECD 410	2200 mg/kg bw/day	4 week	Dog	M

formaldehyde ...%

Route of exposure	Parameter	Result	Method	Value	Time of exposure	Species	Sex
Oral	LOAEL		OECD 453	82 mg/kg bw/day	2 year	Rat (Rattus norvegicus)	M
Inhalation	NOAEC			1.2 mg/m <sup>3</sup>			

reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1)

Route of exposure	Parameter	Result	Method	Value	Time of exposure	Species	Sex
Oral	NOAEL	Systemic effects	OECD 409	22 mg/kg bw/day	13 week	Dog	F/M
Inhalation (aerosols)	NOAEC	Local effects, Systemic effects	OECD 413	2.36 mg/m <sup>3</sup>	90 day	Rat (Rattus norvegicus)	F/M

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reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1)

Route of exposure	Parameter	Result	Method	Value	Time of exposure	Species	Sex
Dermal	NOAEL	Local effects, Systemic effects	EPA OPP 82-3	0.1 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

not available

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Acute toxicity

ethanediol

Parameter	Method	Value	Time of exposure	Species	Environment
LC <sub>50</sub>		72860 mg/l	96 hour	Fishes (Pimephales promelas)	
NOEC	OECD 201	>100 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	

formaldehyde ...%

Parameter	Method	Value	Time of exposure	Species	Environment
LC <sub>50</sub>		6.18 mg/l	96 hour	Fishes (Morone saxatilis)	
LC <sub>50</sub>		6.9 mg/l	6 day	Fishes (Danio rerio (embryos))	
EC <sub>50</sub>	OECD 202	5.8 mg/l	48 hour	Aquatic invertebrates (Daphnia pulex)	Freshwater
ErC <sub>50</sub>	OECD 201	4.89 mg/l	72 hour	Algae (Desmodesmus subspicatus)	
EC <sub>50</sub>	OECD 209	19 mg/l	3 hour	Aquatic microorganisms	Activated sludge

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Parameter	Method	Value	Time of exposure	Species	Environment
LL50		>1000 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
LL50		>1000 mg/l	48 hour	Aquatic invertebrates (Daphnia magna)	
EL50		>1000 mg/l	72 hour	Algae	
NOELR	OECD 201	3-100 mg/l	72 hour	Algae	
EL50		0.95 mg/l	48 hour	Aquatic microorganisms (Tetrahymena pyriformis)	

potassium hydroxide

Parameter	Method	Value	Time of exposure	Species	Environment
		50-165 mg/l		Fishes	

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reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1)

Parameter	Method	Value	Time of exposure	Species	Environment
LC <sub>50</sub>	EPA OPP 72-1	0.19 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EC <sub>50</sub>	EPA OPP 72-2	0.16 mg/l	48 hour	Aquatic invertebrates (Daphnia magna)	Freshwater
EC <sub>50</sub>	OECD 201	0.037 mg/l	48 hour	Algae (Skeletonema costatum)	Salt water

### Chronic toxicity

ethanediol

Parameter	Method	Value	Time of exposure	Species	Environment
NOEC		15380 mg/l	7 day	Fishes (Pimephales promelas)	
NOEC		8590 mg/l	7 day	Aquatic invertebrates (Ceriodaphnia dubia)	

formaldehyde ...%

Parameter	Method	Value	Time of exposure	Species	Environment
NOEC		≥48 mg/l	28 day	Fishes (Oryzias latipes)	
NOEC	OECD 211	≥6.4 mg/l	21 day	Aquatic invertebrates (Daphnia magna)	Freshwater

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Parameter	Method	Value	Time of exposure	Species	Environment
NOELR		0.13 mg/l	28 day	Fishes	
NOELR		0.23 mg/l	21 day	Aquatic invertebrates	

reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1)

Parameter	Method	Value	Time of exposure	Species	Environment
NOEC	OECD 210	0.02 mg/l	35 day	Fishes (Danio rerio)	Freshwater
NOEC	EPA OPP 72-4	0.1 mg/l	21 day	Aquatic invertebrates (Daphnia magna)	Freshwater

## 12.2. Persistence and degradability

### Biodegradability

Alcohols, C16-18 and C18- unsaturated, ethoxylated

Parameter	Method	Value	Time of exposure	Environment	Result
		85.3 %	28 day		Easily biodegradable

ethanediol

Parameter	Method	Value	Time of exposure	Environment	Result
	OECD 301A	90-100 %	10 day		Easily biodegradable

formaldehyde ...%

Parameter	Method	Value	Time of exposure	Environment	Result
	OECD 301A	99 %	28 day		Easily biodegradable

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Parameter	Method	Value	Time of exposure	Environment	Result
		80 %	28 day		Easily biodegradable

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not available

### 12.3. Bioaccumulative potential

ethanediol

Parameter	Method	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
Log Pow		-1.36				25°C

formaldehyde ...%

Parameter	Method	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
BCF		<1				
Log Pow		0.35				20°C

reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1)

Parameter	Method	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]
Log Pow	OECD 107	0.75				24°C

Data not available.

### 12.4. Mobility in soil

formaldehyde ...%

Parameter	Value	Environment	Surrounding temperature
Koc	15.9		

Data not available.

### 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

not available

### 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

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.

#### Waste type code

08 01 20 aqueous suspensions containing paint or varnish other than those mentioned in 08 01 19

#### Packaging waste type code

15 01 02 plastic packaging

## SECTION 14: Transport information

### 14.1. UN number or ID number

not subject to transport regulations

### 14.2. UN proper shipping name

not relevant

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- 14.3. Transport hazard class(es)**  
not relevant
- 14.4. Packing group**  
not relevant
- 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

### 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. 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.

#### Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

formaldehyde ...%

Restriction	Conditions of restriction
28	<p>Without prejudice to the other parts of this Annex the following shall apply to entries 28 to 30:</p> <p>1. Shall not be placed on the market, or used,</p> <ul style="list-style-type: none"><li>– as substances,</li><li>– as constituents of other substances, or,</li><li>– in mixtures, for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than:<ul style="list-style-type: none"><li>– either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or,</li><li>– the relevant generic concentration limit specified in Part 3 of Annex I of Regulation (EC) No 1272/2008.</li></ul></li></ul> <p>Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows:</p> <p>“Restricted to professional users”.</p> <p>2. By way of derogation, paragraph 1 shall not apply to:</p> <ul style="list-style-type: none"><li>(a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC;</li><li>(b) cosmetic products as defined by Directive 76/768/EEC;</li><li>(c) the following fuels and oil products:<ul style="list-style-type: none"><li>– motor fuels which are covered by Directive 98/70/EC,</li><li>– mineral oil products intended for use as fuel in mobile or fixed combustion plants,</li><li>– fuels sold in closed systems (e.g. liquid gas bottles);</li></ul></li><li>(d) artists’ paints covered by Regulation (EC) No 1272/2008;</li><li>(e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date.</li><li>(f) devices covered by Regulation (EU) 2017/745.</li></ul>

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formaldehyde ...%

Restriction	Conditions of restriction
72	<p>1. Shall not be placed on the market after 1 November 2020 in any of the following:</p> <ul style="list-style-type: none"><li>(a) clothing or related accessories;</li><li>(b) textiles other than clothing which, under normal or reasonably foreseeable conditions of use, come into contact with human skin to an extent similar to clothing;</li><li>(c) footwear;</li></ul> <p>if the clothing, related accessory, textile other than clothing or footwear is for use by consumers and the substance is present in a concentration, measured in homogeneous material, equal to or greater than that specified for that substance in Appendix 12.</p> <p>2. By way of derogation, in relation to the placing on the market of formaldehyde [CAS No 50-00-0] in jackets, coats or upholstery, the relevant concentration for the purposes of paragraph 1 shall be 300 mg/kg during the period between 1 November 2020 and 1 November 2023. The concentration specified in Appendix 12 shall apply thereafter.</p> <p>3. Paragraph 1 shall not apply to:</p> <ul style="list-style-type: none"><li>(a) clothing, related accessories or footwear, or parts of clothing, related accessories or footwear, made exclusively of natural leather, fur or hide;</li><li>(b) non-textile fasteners and non-textile decorative attachments;</li><li>(c) second-hand clothing, related accessories, textiles other than clothing or footwear</li><li>(d) wall-to-wall carpets and textile floor coverings for indoor use, rugs and runners.</li></ul> <p>4. Paragraph 1 shall not apply to clothing, related accessories, textiles other than clothing, or footwear within the scope of Regulation (EU) 2016/425 of the European Parliament and of the Council (*) or Regulation (EU) 2017/745 of the European Parliament and of the Council (**).</p> <p>5. Paragraph 1(b) shall not apply to disposable textiles. 'Disposable textiles' means textiles that are designed to be used only once or for a limited time and are not intended for subsequent use for the same or a similar purpose.</p> <p>6. Paragraphs 1 and 2 shall apply without prejudice to the application of any stricter restrictions set out in this Annex or in other applicable Union legislation.</p> <p>7. The Commission shall review the exemption in paragraph 3(d) and, if appropriate, modify that point accordingly.</p> <p>(*) Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC (OJ L 81, 31.3.2016, p. 51).</p> <p>(**) Regulation (EU) 2017/745 of the European Parliament and of the Council of 5 April 2017 on medical devices, amending Directive 2001/83/EC, Regulation (EC) No 178/2002 and Regulation (EC) No 1223/2009 and repealing Council Directives 90/385/EEC and 93/42/EEC (OJ L 117, 5.5.2017, p. 1).</p>

### 15.2. Chemical safety assessment

not available

## SECTION 16: Other information

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

H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
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.
H331	Toxic if inhaled.

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H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H310+H330	Fatal in contact with skin 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.
P264	Wash hands and exposed parts of the body thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501	Dispose of contents/container according to the instructions of the manufacturer or person authorized to dispose of waste.

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

EUH208	Contains reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1). May produce an allergic reaction.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH071	Corrosive to the respiratory tract.

### 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
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
LOAEL	Lowest observed adverse effect level
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



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NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
NOELR	No Observed Effect Loading Rate
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UE	European Union
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
vPvB	Very Persistent and very Bioaccumulative
WE	Identification code for each substance listed in EINECS
Acute Tox.	Acute toxicity
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
Carc.	Carcinogenicity
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
Met. Corr.	Corrosive to metals
Muta.	Germ cell mutagenicity
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
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)

### More information

Classification procedure - calculation method.

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### 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.

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