

SAFETY DATA SHEET



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

NEXLER Gruntofol

Creation date 12th June 2023
Revision date Version 1.0

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

- 1.1. Product identifier** NEXLER Gruntofol
Substance / mixture mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
For priming absorbent substrates indoors and outdoors.
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
P102 Keep out of reach of children.
P264 Wash face, hands and exposed parts of the body thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
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), 1,2-benzisothiazol-3(2H)-one. 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

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: 019-002-00-8 CAS: 1310-58-3 EC: 215-181-3 Registration number: 01-2119487136-33	potassium hydroxide	0,04-0,06	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 %	1
Index: 603-027-00-1 CAS: 107-21-1 EC: 203-473-3 Registration number: 01-2119456816-28	ethylene glycol	<0,01	Acute Tox. 4, H302 STOT RE 2, H373 (kidneys) (ingestion)	1
Index: 613-088-00-6 CAS: 2634-33-5 EC: 220-120-9 Registration number: - [REACH art. 15 (2)]	1,2-benzisothiazol-3(2H)-one	<0,01	Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411 Specific concentration limit: Skin Sens. 1, H317: C ≥ 0.05 %	
Index: 605-001-00-5 CAS: 50-00-0 EC: 200-001-8 Registration number: 01-2119488953-20	formaldehyde	<0,007	Acute Tox. 3, H301+H311 Skin Corr. 1B, H314 Skin Sens. 1, H317 Acute Tox. 2, H330 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

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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: - [REACH art. 15 (2)]	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	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 % ≤ C < 0.6 % Skin Sens. 1A, H317: C ≥ 0.0015 % Skin Irrit. 2, H315: 0.06 % ≤ C < 0.6 % Skin Corr. 1C, H314: C ≥ 0.6 % Eye Dam. 1, H318: C ≥ 0.6 %	

Notes

- 1 A substance for which exposure limits are set.
- 2 The use of the substance is restricted by Annex XVII of REACH Regulation

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.

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

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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 containers in cold, dry and well ventilated areas designated for this purpose. 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 ³	
ethylene glycol (CAS: 107-21-1)	WEL 8h	10 mg/m ³	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 ³	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity., vapour
	WEL 8h	20 ppm	

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United Kingdom

EH40/2005 Workplace exposure limits (Fourth Edition 2020)

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

DNEL

1,2-benzisothiazol-3(2H)-one					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	6.81 mg/m ³	Chronic effects systemic		
Workers	Dermal	0.966 mg/kg bw/day	Chronic effects systemic		
Consumers	Inhalation	1.2 mg/m ³	Chronic effects systemic		
Consumers	Dermal	0.345 mg/kg bw/day	Chronic effects systemic		

ethylene glycol					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	35 mg/m ³	Chronic effects local		
Workers	Dermal	106 mg/kg bw/day	Chronic effects systemic		
Consumers	Inhalation	7 mg/m ³	Chronic effects local		
Consumers	Dermal	53 mg/kg bw/day	Chronic effects systemic		

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formaldehyde

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	9 mg/m ³	Chronic effects systemic		
Workers	Inhalation	0.375 mg/m ³	Chronic effects local		
Workers	Inhalation	0.75 mg/m ³	Acute effects local		
Workers	Dermal	240 mg/kg bw/day	Chronic effects systemic		
Workers	Dermal	0.037 mg/cm ²	Chronic effects local		
Consumers	Inhalation	3.2 mg/m ³	Chronic effects systemic		
Consumers	Inhalation	0.1 mg/m ³	Chronic effects local		
Consumers	Dermal	102 mg/kg bw/day	Chronic effects systemic		
Consumers	Dermal	0.012 mg/cm ²	Chronic effects local		
Consumers	Oral	4.1 mg/kg bw/day	Chronic effects systemic		

potassium hydroxide

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	1 mg/m ³	Chronic effects local		
Consumers	Inhalation	1 mg/m ³	Chronic effects local		

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	Value determination	Source
Workers	Inhalation	0.02 mg/m ³	Chronic effects local		
Workers	Inhalation	0.04 mg/m ³	Acute effects local		
Consumers	Inhalation	0.02 mg/m ³	Chronic effects local		
Consumers	Inhalation	0.04 mg/m ³	Acute effects local		
Consumers	Oral	0.09 mg/kg bw/day	Chronic effects systemic		
Consumers	Oral	0.11 mg/kg bw/day	Acute effects systemic		

PNEC

1,2-benzisothiazol-3(2H)-one

Route of exposure	Value	Value determination	Source
Drinking water	4.03 µg/l		
Water (intermittent release)	1.1 µg/l		
Marine water	0.403 µg/l		
Microorganisms in sewage treatment	1.03 mg/l		
Freshwater sediment	0.0499 mg/kg of dry substance of sediment		

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1,2-benzisothiazol-3(2H)-one

Route of exposure	Value	Value determination	Source
Sea sediments	0.00499 mg/kg of dry substance of sediment		
Soil (agricultural)	3 mg/kg of dry substance of soil		

ethylene glycol

Route of exposure	Value	Value determination	Source
Drinking water	10 mg/l		
Marine water	1 mg/l		
Microorganisms in sewage treatment	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		
Water (intermittent release)	10 mg/l		

formaldehyde

Route of exposure	Value	Value determination	Source
Drinking water	0.44 mg/l		
Marine water	0.44 mg/l		
Microorganisms in sewage treatment	0.19 mg/l		
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	Value determination	Source
Drinking water	3.39 µg/l		
Marine water	3.39 µg/l		
Microorganisms in sewage treatment	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		

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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	Value	Value determination	Source
Soil (agricultural)	0.01 mg/kg of dry substance of soil		
Water (intermittent release)	3.39 µg/l		

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

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	white
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	not applicable
Flash point	not applicable
Auto-ignition temperature	not applicable
Decomposition temperature	not applicable
pH	8.5-9.5 (undiluted at 22 °C)
Kinematic viscosity	<10 mm ² /s at 22 °C
Solubility in water	miscible with water
Partition coefficient n-octanol/water (log value)	does not apply to mixtures
Vapour pressure	not determined
water (CAS: 7732-18-5)	23.4 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

The mixture is not reactive.

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

No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

1,2-benzisothiazol-3(2H)-one						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀	OECD 401	490 mg/kg bw		Rat (Rattus norvegicus)	F/M
Dermal	LD ₅₀	OECD 402	>2000 mg/kg bw		Rat (Rattus norvegicus)	F/M

ethylene glycol						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀		7712 mg/kg bw		Rat (Rattus norvegicus)	F/M
Inhalation (aerosols)	LC ₅₀		>2.5 mg/l of air	6 hours	Rat (Rattus norvegicus)	F/M
Dermal	LD ₅₀		>3500 mg/kg bw		Mouse	F/M

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

potassium hydroxide						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀	OECD 425	333 mg/kg bw		Rat (Rattus norvegicus)	M

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	Exposure time	Species	Sex
Oral	LD ₅₀		64 mg/kg bw		Rat (Rattus norvegicus)	M
Inhalation (aerosols)	LC ₅₀	OECD 403	0.171 mg/l of air	4 hours	Rat (Rattus norvegicus)	F/M
Dermal	LD ₅₀		87 mg/kg bw	24 hours	Rabbit	M

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Skin corrosion/irritation

Based on available data the classification criteria are not met.

formaldehyde				
Route of exposure	Result	Method	Exposure time	Species
Dermal	Corrosive	OECD 404	20 hours	Rabbit

potassium hydroxide				
Route of exposure	Result	Method	Exposure time	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	Exposure time	Species
Dermal	Corrosive	OECD 404		Rabbit

Serious eye damage/irritation

Based on available data the classification criteria are not met.

1,2-benzisothiazol-3(2H)-one				
Route of exposure	Result	Method	Exposure time	Species
Eye	Highly irritating, Serious eye damage	EPA OPP 81-4	3 hours	Rabbit

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

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

1,2-benzisothiazol-3(2H)-one					
Route of exposure	Result	Method	Exposure time	Species	Sex
Dermal	Sensitizing	EPA OPP 81-6		Guinea-pig (Cavia aperea f. porcellus)	F

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

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	Exposure time	Species	Sex
Dermal	Sensitizing			Mouse	F

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Germ cell mutagenicity

Based on available data the classification criteria are not met.

formaldehyde					
Result	Method	Exposure time	Specific target organ	Species	Sex
Positive without metabolic activation, Positive with metabolic activation	OECD 471				
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

1,2-benzisothiazol-3(2H)-one							
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	NOAEL	Systemic effects	EPA OPP 82-1	69 mg/kg bw/day	90 days	Rat (Rattus norvegicus)	F/M

ethylene glycol							
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	NOEL	Systemic effects	OECD 408	150 mg/kg bw/day	16 weeks	Rat (Rattus norvegicus)	M
Dermal	NOAEL	Systemic effects	OECD 410	2200 mg/kg bw/day	4 weeks	Dog	M

formaldehyde							
Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Oral	LOAEL	Systemic effects	OECD 453	82 mg/kg bw/day	2 years	Rat (Rattus norvegicus)	M
Inhalation	NOAEC	Systemic effects		1.2 mg/m ³			

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	Exposure time	Species	Sex
Oral	NOAEL	Systemic effects	OECD 409	22 mg/kg bw/day	13 weeks	Dog	F/M

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Route of exposure	Parameter	Result	Method	Value	Exposure time	Species	Sex
Inhalation (aerosols)	NOAEC	Local effects, Systemic effects	OECD 413	0.34 mg/m ³	90 days	Rat (Rattus norvegicus)	F/M
Dermal	NOAEL	Local effects, Systemic effects	EPA OPP 82-3	0.1 mg/kg bw/day	90 days	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

not available

Acute toxicity

1,2-benzisothiazol-3(2H)-one

Parameter	Method	Value	Exposure time	Species	Environment
LC ₅₀	OECD 203	2.15 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EC ₅₀	OECD 202	2.9 mg/l	48 hours	Aquatic invertebrates (Daphnia magna)	
EC ₅₀	OECD 201	110 µg/l	72 hours	Algae (Raphidocelis subcapitata)	
NOEC	OECD 201	40.3 µg/l	72 hours	Algae (Raphidocelis subcapitata)	
NOEC	OECD 209	10.3 mg/l	3 hours	Aquatic microorganisms	Activated sludge
EC ₅₀	OECD 207	>410.6 mg/kg of dry substance of soil	14 days	Invertebrates (Eisenia fetida)	
EC ₅₀	OECD 216	>811.5 mg/kg of dry substance of soil	28 days	Microorganisms	Activated sludge

ethylene glycol

Parameter	Method	Value	Exposure time	Species	Environment
LC ₅₀		>72860 mg/l	96 hours	Fish (Pimephales promelas)	
NOEC	OECD 201	>100 mg/l	72 hours	Algae (Raphidocelis subcapitata)	

formaldehyde

Parameter	Method	Value	Exposure time	Species	Environment
LC ₅₀		6.18 mg/l	96 hours	Fish (Morone saxatilis)	
LC ₅₀	OECD 212	6.9 mg/l	6 days	Fish (Danio rerio (embryos))	

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formaldehyde

Parameter	Method	Value	Exposure time	Species	Environment
EC ₅₀	OECD 202	5.8 mg/l	48 hours	Aquatic invertebrates (Daphnia pulex)	
ErC ₅₀	OECD 201	4.89 mg/l	72 hours	Algae (Desmodesmus subspicatus)	
EC ₅₀	OECD 209	19 mg/l	3 hours	Aquatic microorganisms	Activated sludge

potassium hydroxide

Parameter	Method	Value	Exposure time	Species	Environment
LC ₅₀		50-165 mg/l		Fish	

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	Exposure time	Species	Environment
LC ₅₀	EPA OPP 72-1	0.19 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EC ₅₀	EPA OPP 72-2	0.16 mg/l	48 hours	Aquatic invertebrates (Daphnia magna)	
EC ₅₀	OECD 201	0.037 mg/l	48 hours	Algae (Skeletonema costatum)	
EC ₅₀	OECD 209	4.5 mg/l	3 hours	Aquatic microorganisms	Activated sludge
LC ₅₀	OECD 207	86.6 mg/kg of dry substance of soil	14 days	Invertebrates (Eisenia fetida)	

Chronic toxicity

1,2-benzisothiazol-3(2H)-one

Parameter	Method	Value	Exposure time	Species	Environment
NOEC	OECD 207	234.5 mg/kg of dry substance of soil	14 days	Invertebrates (Eisenia fetida)	
NOEC	OECD 216	263.7 mg/kg of dry substance of soil	28 days	Microorganisms	Activated sludge

ethylene glycol

Parameter	Method	Value	Exposure time	Species	Environment
NOEC		8590 mg/l	7 days	Aquatic invertebrates (Ceriodaphnia dubia)	

formaldehyde

Parameter	Method	Value	Exposure time	Species	Environment
NOEC	OECD 215	≥48 mg/l	28 days	Fish (Oryzias latipes)	
NOEC	OECD 211	≥6.4 mg/l	21 days	Aquatic invertebrates (Daphnia magna)	

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	Exposure time	Species	Environment
NOEC	OECD 210	0.02 mg/l	35 days	Fish (Danio rerio)	

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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	Exposure time	Species	Environment
NOEC	EPA OPP 72-4	0.1 mg/l	21 days	Aquatic invertebrates (Daphnia magna)	

12.2. Persistence and degradability

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

Biodegradability

1,2-benzisothiazol-3(2H)-one

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301C		63 days		Hardly biodegradable

ethylene glycol

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301A	90-100 %	10 days		Easily biodegradable

formaldehyde

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301A	99 %	28 days		Easily biodegradable

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	Exposure time	Environment	Result
					Biodegradable

12.3. Bioaccumulative potential

Bioaccumulation is not expected.

1,2-benzisothiazol-3(2H)-one

Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow		0.7				20°C
BCF		6.62	56 days	Fish (Lepomis macrochirus)		

ethylene glycol

Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow		-1.36				25°C

formaldehyde

Parameter	Method	Value	Exposure time	Species	Environment	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	Exposure time	Species	Environment	Temperature [°C]
Log Pow	OECD 107	0.75				24°C

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12.4. Mobility in soil

The active substances show low mobility in the soil.

1,2-benzisothiazol-3(2H)-one				
Parameter	Method	Value	Environment	Temperature
Log Koc	OECD 121	0.97		25°C

formaldehyde				
Parameter	Method	Value	Environment	Temperature
Koc		15.9		

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

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

not subject to transport regulations

14.2. UN proper shipping name

not relevant

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

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SECTION 15: Regulatory information

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

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

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> <ol style="list-style-type: none">Shall not be placed on the market, or used,<ul style="list-style-type: none">as substances,as constituents of other substances, or,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">either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or,the relevant generic concentration limit specified in Part 3 of Annex I of Regulation (EC) No 1272/2008. <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> <ol style="list-style-type: none">By way of derogation, paragraph 1 shall not apply to:<ol style="list-style-type: none">medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC;cosmetic products as defined by Directive 76/768/EEC;the following fuels and oil products:<ul style="list-style-type: none">motor fuels which are covered by Directive 98/70/EC,mineral oil products intended for use as fuel in mobile or fixed combustion plants,fuels sold in closed systems (e.g. liquid gas bottles);artists’ paints covered by Regulation (EC) No 1272/2008;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.devices covered by Regulation (EU) 2017/745.

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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">(a) clothing or related accessories;(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;(c) footwear; <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">(a) clothing, related accessories or footwear, or parts of clothing, related accessories or footwear, made exclusively of natural leather, fur or hide;(b) non-textile fasteners and non-textile decorative attachments;(c) second-hand clothing, related accessories, textiles other than clothing or footwear(d) wall-to-wall carpets and textile floor coverings for indoor use, rugs and runners. <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

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

H290	May be corrosive to metals.
H301	Toxic if swallowed.
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.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.

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H373	May cause damage to the kidneys through prolonged or repeated exposure if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H310+H330	Fatal in contact with skin or if inhaled.
H301+H311	Toxic if swallowed or in contact with skin.

Guidelines for safe handling used in the safety data sheet

P102	Keep out of reach of children.
P264	Wash face, hands and exposed parts of the body thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
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

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), 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.
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
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC ₅₀	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEL	Lowest observed adverse effect level
log K _{ow}	Octanol-water partition coefficient
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals

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RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Acute Tox.	Acute toxicity
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Carc.	Carcinogenicity
Eye Dam.	Serious eye damage
Met. Corr.	Corrosive to metals
Muta.	Germ cell mutagenicity
Skin Corr.	Skin corrosion
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure

Training guidelines

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

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

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

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.