

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****Product identifier****Trade name:****FOLBIT 800**

Liquid foil

**Relevant identified uses of the substance or mixture and uses advised against****Life cycle stages**

C/PW Consumer use / Widespread use by professional workers

**Sector of Use**

SU19 Building and construction work

**Product category**

PC1 Adhesives, sealants

**Process category**

PROC10 Roller application or brushing

PROC11 Non industrial spraying

PROC19 Manual activities involving hand contact

**Environmental release category**

ERC10a / ERC11a Widespread use of articles with low release

**Article category**

AC0 Other

**Application of the substance / the preparation**

Sealant - Product for an industrial, technical and private use for processing on buildings. For all other uses is advised against/ not recommended.

**Details of the supplier of the safety data sheet****Manufacturer/Supplier:**KREISEL - Technika Budowlana Sp. z o.o.  
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Poland

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**Further information obtainable from:**

Bartosz Polaczyk - Tel.: +48 510 022 908, +48 61 84 67 966, bartosz.polaczyk@kreisel.pl

On working days 8 a.m. - 4 p.m.

**Emergency telephone number**

National poisons information centre: +44/(0)171 - 635 9191

National Health Service: 111

European emergency call: 112

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**SECTION 2: Hazards identification****Classification of the substance or mixture**

The product is not classified, according to the Globally Harmonised System (GHS).

**Label elements**

**GHS label elements** Void

**Hazard pictograms**

Void

**Signal word**

Void

**Hazard statements**

Void

**Additional information:**

EUH208 Contains 1,2-Benzisothiazol-3(2H)-one, 2-Methyl-2H-isothiazol-3-one. May produce an allergic reaction.

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

**Other hazards**

No further relevant information available.

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**SECTION 3: Composition/information on ingredients****Chemical characterization: Substances**

This product is a mixture.

**Mixtures****Description:**

Mixture of acrylat dispersion and fillers with nonhazardous additions.

**Dangerous components:**

CAS: 13463-67-7 EINECS: 236-675-5 Index number:... 022-006-00-2 REACH: 01-2119489379-17	Titanium dioxide (<1% particles ≤ 10µm, Note 10)	1 - 2.5%
CAS: 2634-33-5 EINECS: 220-120-9 Index number:... 613-088-00-6 REACH: 01-2120761540-60	1,2-Benzisothiazol-3(2H)-one ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317 Specific concentration limit: Skin Sens. 1; H317: C ≥ 0.05 %	< 0.03%
CAS: 2682-20-4 EINECS: 220-239-6 REACH: 01-2120764690-50	2-Methyl-2H-isothiazol-3-one ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; ⚠ Skin Corr. 1B, H314; ⚠ Aquatic Acute 1, H400; ⚠ Skin Sens. 1A, H317 Specific concentration limit: Skin Sens. 1; H317: C ≥ 0.0015 %	< 0.0015%

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**Other components (>20%):**

CAS: 7732-18-5 EINECS: 231-791-2 REACH: <sup>1</sup>	Water	25 - 50%
CAS: 1317-65-3 EINECS: 215-279-6 REACH: <sup>1</sup>	Limestone (Calcium carbonate) Consisting of: 471-34-1 Calcium carbonate (> 90%); 16389-88-1 Calcium/Magesium carbonate (0 - 10%); 14808-60-7 Quartz (SiO <sub>2</sub> ) (0 - 10%); 37244-96-5 Feldspar (0 - 5%); 12001-26-2 Mica - Potassium aluminum silicate (Muscovite) (0 - 5%)	25 - 50%
EC number: 920-793-5 REACH: <sup>1</sup>	Styrene acrylates copolymer	25 - 50%

**Additional information:**

For the wording of the listed hazard phrases refer to section 16.

Note 10 (EU 2020/217): The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter ≤ 10 µm.

<sup>1</sup> Not subject to registration in accordance with EC 1907/2006 Annex V (point 7) or Article 2.

## SECTION 4: First aid measures

**Description of first aid measures**

First aid

**General information:**

For first responder no special personal protective equipment is required. First responder should avoid contact with the product.

**After inhalation:**

Take affected persons into fresh air and keep quiet. Seek medical treatment in case of complaints. In case of irregular breathing or respiratory arrest provide artificial respiration. In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:**

Immediately wash with water and soap and rinse thoroughly. Immediately remove all soiled and contaminated clothing. Wash contaminated clothes before reuse. Clean contaminated shoes before reuse. If skin irritation continues, consult a doctor.

**After eye contact:**

Do not rub eyes because additional damage to eyes can be caused by mechanical stress. If necessary, remove contact lenses and flush the eye immediately while holding eyelids open to water for at least 20 minutes. If possible, isotonic eyewash solution (e. g. 0,9% NaCl). Always consult an occupational physician or ophthalmologist.

**After swallowing:**

Do not induce vomiting. If conscious rinse mouth with water and drink plenty of water. Consult a physician or poison control center.

**Most important symptoms and effects, both acute and delayed**

Symptoms and effects are described in section 2 and 11.

**Hazards:**

No further relevant information available.

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**Indication of any immediate medical attention and special treatment needed**

If a physician is to be consulted, as per possibility he should be presented this safety data sheet.

**SECTION 5: Firefighting measures****Extinguishing media**

The mixture is flammable neither in the delivery condition not in mixed conditions. Extinguisher and fire fighting are therefore adjusted to the surrounding fire.

**Suitable extinguishing agents:**

The mixture is flammable neither in the delivery condition not in mixed conditions. Extinguisher and fire fighting are therefore adjusted to the surrounding fire.

**Special hazards arising from the substance or mixture**

This product is neither explosive nor flammable, and non-oxidizing with other materials. Particular danger of slipping on leaked/spilled product.

**Advice for firefighters**

No special measures required. Collect contaminated fire fighting water separately. It must not enter the sewage system. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

**SECTION 6: Accidental release measures****Personal precautions, protective equipment and emergency procedures**

If appropriate, reference must be made to exposure controls and personal protection (see section 8).

**Environmental precautions**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**Methods and material for containment and cleaning up**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of the material collected according to regulations.

**Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**SECTION 7: Handling and storage****Precautions for safe handling:**

Ensure good ventilation/exhaustion at the workplace. Avoid contact with the eyes and skin. Wear protective clothing. Washing facilities / Water for cleaning yes and skin should be available. Persons, who tend to skin diseases or other hypersensitivity reactions of the skin, should not handle the product. Do not eat, drink, smoke or sniff while working.

**Information about fire - and explosion protection:**

No special measures required.

**Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:**

Keep out of reach of children. Store in cool, dry place in tightly closed receptacles.

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**Information about storage in one common storage facility:**

Keep away from foodstuffs, beverages and feed.

**Further information about storage conditions:**

Protect from frost. Protect from heat and direct sunlight.

**Minimum storage life:**

Minimum storage life (+5°C up to 25°C): See indication on package.

**Storage class: 12****Specific end use(s)**

No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

**Control parameters****Ingredients with limit values that require monitoring at the workplace:****13463-67-7 Titanium dioxide (<1% particles ≤ 10µm, Note 10)**

WEL (Great Britain)	Long-term value: 10* 4** mg/m <sup>3</sup> *total inhalable **respirable
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**DNELs****13463-67-7 Titanium dioxide (<1% particles ≤ 10µm, Note 10)**

Oral	Long term exposure	700 mg/kg bw/d (Consumer)
Inhalative	Systemic - Long term exposure	10 mg/m <sup>3</sup> (Employee)

**2634-33-5 1,2-Benzisothiazol-3(2H)-one**

Dermal	Systemic - Long term exposure	0.345 mg/kg bw/d (Consumer) 0.966 mg/kg bw/d (Employee)
Inhalative	Systemic - Long term exposure	1.2 mg/m <sup>3</sup> (Consumer) 6.81 mg/m <sup>3</sup> (Employee)

**2682-20-4 2-Methyl-2H-isothiazol-3-one**

Oral	Long term exposure	0.027 mg/kg bw/d (Consumer)
	Short term exposure	0.053 mg/kg bw/d (Consumer)
Inhalative	Local - Long term exposure	0.021 mg/m <sup>3</sup> (Consumer) 0.021 mg/m <sup>3</sup> (Employee)
	Local - Short term exposure	0.34 mg/m <sup>3</sup> (Consumer) 0.34 mg/m <sup>3</sup> (Employee)

**PNECs****13463-67-7 Titanium dioxide (<1% particles ≤ 10µm, Note 10)**

Freshwater	0.127 mg/l
Marine water	1 mg/l
Soil	> 100 mg/kg
Sediments (Freshwater)	> 1,000 mg/kg
Sediments (Marine water)	100 mg/kg
Sewage plant	100 mg/l

**2634-33-5 1,2-Benzisothiazol-3(2H)-one**

Freshwater	0.00403 mg/l (not specified)
Marine water	0.000403 mg/l (not specified)
Soil	3 mg/kg (not specified)
Sediments (Freshwater)	0.0499 mg/kg (not specified)

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Sediments (Marine water)	0.000499 mg/kg (not specified)
Sewage plant	1.03 mg/l (not specified)
<b>2682-20-4 2-Methyl-2H-isothiazol-3-one</b>	
Freshwater	0.00339 mg/l (not specified)
Soil	0.047 mg/kg (not specified)
Sediments (Marine water)	0.00339 mg/kg (not specified)
Sewage plant	0.23 mg/l (not specified)

**Ingredients with biological limit values:**

Void

**Additional information:**

The lists valid during the making were used as basis.

**Exposure controls****Individual protection measures, such as personal protective equipment****General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed. Remove contaminated clothing immediately and thoroughly clean it before using it again. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Do not eat, drink, smoke or sniff while working. Use skin protection cream for skin protection. Ensure that washing facilities are available at the work place.

**Respiratory protection:**

Use suitable respiratory protective device only when aerosol or mist is formed (FFP2 according to EN 149)

**Hand protection:**

Hand protection: Chemical resistant protective gloves according EN ISO 374

The glove material has to be impermeable and resistant to the product. Due to missing tests no recommendation to the glove material can be given for the product. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Check protective gloves prior to each use for their proper condition. Preventive skin protection by use of skin-protecting agents is recommended. To avoid skin problems reduce the wearing of gloves to the required minimum.

**Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**For the permanent contact gloves made of the following materials are suitable:**

Polychloroprene (material thickness  $\geq 0.5$  mm ; breakthrough time  $\geq 480$  min.)  
 Nitrile rubber (material thickness  $\geq 0.35$  mm ; breakthrough time  $\geq 480$  min.)  
 Butyl rubber (material thickness  $\geq 0.5$  mm ; breakthrough time  $\geq 480$  min.)  
 Fluororubber (material thickness  $\geq 0.4$  mm ; breakthrough time  $\geq 480$  min.)  
 Neoprene (material thickness  $\geq 0.5$  mm ; breakthrough time  $\geq 480$  min.)

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**Not suitable are gloves made of the following materials:**

Non-liquid-tight gloves made of fabric, leather or similar materials.

**Eye/face protection:**

In case of splash risk use tightly fitting safety goggles according to EN 166.

**Body protection:**

Protective work clothing

**Risk management measures:**

An operator training/guidance in the correct use of personal protective equipment is necessary to ensure the required level of effectiveness.

**Information about design of technical facilities**

No further data; see item 7.

**Environmental exposure controls**

Avoid release in the environment. Use the surplus or dispose it of properly.

## SECTION 9: Physical and chemical properties

**Information on basic physical and chemical properties****General Information****Physical state**

Fluid

**Appearance:****Form:**

Pasty

**Colour:**

Light blue

**Odour:**

Mild

**Odour threshold:**

Not safety relevant

**pH at 20 °C (68 °F)**

8 - 10

Saturated aqueous solution

**Change in condition****Melting point/freezing point:**

~ 0 °C (~ 32 °F) (ISO 3016)

**Boiling point or initial boiling point and boiling range**

100 °C (212 °F)

**Flammability**

Product is not flammable.

**Flash point:**

Not applicable

**Auto-ignition temperature:**

&gt; 400 °C (&gt; 752 °F) (DIN 51794)

**Decomposition temperature:**> 825°C to CaO and CO<sub>2</sub>**Oxidising properties:**

None

**Explosive properties:**

Product does not present an explosion hazard.

**Lower and upper explosion limit****Lower:**

Not determined

**Upper:**

Not determined

**Ignition temperature:**

Product is not selfigniting.

**Vapour pressure at 20 °C (68 °F):**

23 hPa (17.3 mm Hg)

**Density and/or relative density****Density at 20 °C (68 °F):**1.4 - 1.6 g/cm<sup>3</sup> (11.68 - 13.35 lbs/gal)

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**Particle size****Viscosity:****Dynamic at 20 °C (68 °F):** > 1,000 mPas (DIN 53019)**Solubility****Water:**

Not miscible or difficult to mix

**Solids content:**

60 - 64 %

**Solvent content:****Organic solvents:**

0.5 %

**VOC without water (EC):**

15.65 - 21.66 g/l

**VOC with water (EC):**

7.06 - 8.07 g/l

**VOC with water (EC):**

0.504 %

**Other information****Information with regard to physical hazard classes**

<b>Explosives</b>	Void
<b>Flammable gases</b>	Void
<b>Aerosols</b>	Void
<b>Oxidising gases</b>	Void
<b>Gases under pressure</b>	Void
<b>Flammable liquids</b>	Void
<b>Flammable solids</b>	Void
<b>Self-reactive substances and mixtures</b>	Void
<b>Pyrophoric liquids</b>	Void
<b>Pyrophoric solids</b>	Void
<b>Self-heating substances and mixtures</b>	Void
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
<b>Oxidising liquids</b>	Void
<b>Oxidising solids</b>	Void
<b>Organic peroxides</b>	Void
<b>Corrosive to metals</b>	Void
<b>Desensitised explosives</b>	Void

**SECTION 10: Stability and reactivity****Reactivity**

No dangerous reactions known.

**Chemical stability:**

The product is stable as long as it is stored properly and dry.

**Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

**Possibility of hazardous reactions**

No dangerous reactions known.

**Conditions to avoid**

No further relevant information available.

**Incompatible materials**

No further relevant information available.

**Hazardous decomposition products**

No dangerous decomposition products known.

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**Minimum storage life:**

Minimum storage life (+5°C up to 25°C): See indication on package.

**Additional information:**

No further relevant information available.

## SECTION 11: Toxicological information

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

The product was not investigated. The statement is derived from the properties of the single components.

**Acute toxicity:**

Based on available data, the classification criteria are not met.

**LD/LC50 values relevant for classification:****1317-65-3 Limestone (Calcium carbonate)**

Oral	LD <sub>50</sub>	6,450 mg/kg (Rat) (RTECS Data)
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**Styrene acrylates copolymer**

Oral	LD <sub>50</sub>	> 5,000 mg/kg (Rat)
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Dermal	LD <sub>50</sub>	> 5,000 mg/kg (Rat)
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**13463-67-7 Titanium dioxide (<1% particles ≤ 10µm, Note 10)**

Oral	LD <sub>50</sub>	> 5,000 mg/kg (Rat) (OECD 425)
	Carcinogenicity	(Mouse) (ECHA Registration dossier) no effects observed

Dermal	LD <sub>50</sub>	> 5,000 mg/kg (Rabbit)
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**2634-33-5 1,2-Benzisothiazol-3(2H)-one**

Oral	LD <sub>50</sub>	1,150 mg/kg (Mouse)
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		597 mg/kg (Rat)
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Dermal	LD <sub>50</sub>	> 2,000 mg/kg (Rat)
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**2682-20-4 2-Methyl-2H-isothiazol-3-one**

Oral	LD <sub>50</sub>	232 - 249 mg/kg (Rat) (OECD 401)
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Dermal	LD <sub>50</sub>	242 mg/kg (Rat) (OECD 402)
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Inhalative	LC <sub>50</sub> (4h)	0.05 mg/l (ATE)
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	LC <sub>50</sub> (4h)	0.11 mg/l (Rat) (OECD 403)
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**Other information (about experimental toxicology):****13463-67-7 Titanium dioxide (<1% particles ≤ 10µm, Note 10)**

Oral	OECD 414 (Prenatal Developmental Toxicity)	(Rat) no effects observed
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Irritation of skin	OECD 404 (skin)	(Rabbit) not corrosive
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Irritation of eyes	OECD 405 (eye)	(Rabbit) not irritant
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Sensitisation	OECD 429 (LLNA)	(Mouse) not sensitizing
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	OECD 421 (Reproduction screening test)	(Rat) no effects observed
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**2682-20-4 2-Methyl-2H-isothiazol-3-one**

Oral	OECD 408 (Repeated dose oral toxicity 90d)	19 mg/kg bw/day (Rat)
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Irritation of skin	OECD 404 (skin)	(Rabbit) corrosive
Sensitisation	OECD 406 (sensitization)	(Guinea pig) sensitizing

**On the skin:**

Based on available data, the classification criteria are not met.

**On the eye:**

Based on available data, the classification criteria are not met.

**Sensitization:**

Sensitising effect by skin contact is possible by prolonged exposure.

Based on available data, the classification criteria are not met.

**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.

**Specific target organ toxicity - single exposure (STOT SE):**

Based on available data, the classification criteria are not met.

**Specific target organ toxicity - repeated exposure (STOT RE):**

Based on available data, the classification criteria are not met.

**Aspiration hazard:**

Based on available data, the classification criteria are not met.

**Practical experience**

No further relevant information available.

**General comments**

No further relevant information available.

**Information on other hazards****Endocrine disrupting properties**

None of the ingredients is listed.

**SECTION 12: Ecological information****Toxicity**

The product was not investigated. The statement is derived from the properties of the single components.

**Aquatic toxicity:****1317-65-3 Limestone (Calcium carbonate)**

LC <sub>50</sub> (96h)	> 100 mg/l (Rainbow trout - oncorhynchus mykiss) (OECD 203)
LC <sub>50</sub> (48h)	> 100 mg/l (Water flea - daphnia magna) (OECD 202)
EC <sub>50</sub>	> 14 mg/l (Algae - desmodesmus subspicatus) (OECD 201)
	> 1,000 mg/l (Activated sewage sludge) (OECD 209)

**Styrene acrylates copolymer**

LC <sub>50</sub> (96h)	> 100 mg/l (Zebrafish - danio rerio)
EC <sub>50</sub> (48h)	> 100 mg/l (Water flea - daphnia magna)
EC <sub>50</sub> (72h)	> 100 mg/l (Algae - desmodesmus subspicatus)

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# Safety data sheet

according to 1907/2006/EC, Article 31

# KREISEL®

Printing date 12.02.2024

Version number: RO/ 3 (replaces version 2)

Revision: 02.02.2024

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**13463-67-7 Titanium dioxide (<1% particles ≤ 10µm, Note 10)**

LC <sub>50</sub> (48h)	5.5 mg/l (Water flea - daphnia magna)
LC <sub>50</sub> (96h Marine water)	> 10,000 mg/l (Fish)
LC <sub>50</sub> (96h Freshwater) (static)	> 100 mg/l (Goldfish) (OECD 203)
EC <sub>50</sub> (48h)	> 1,000 mg/l (Water flea - daphnia magna) (ASTM Standard E729)
EC <sub>50</sub> (72h)	5.83 mg/l (Algae - pseudokirchneriella subcapitata)
EC <sub>50</sub> (3h)	> 1,000 mg/l (Activated sludge organisms) (OECD 209)
EC <sub>50</sub> (7d)	> 100 mg/l (Lemna minor) (OECD 221)
NOEC (48h)	1 mg/l (Water flea - daphnia magna)
NOEC (21d)	> 10 mg/kg (Water flea - daphnia magna) (OECD 202)
NOEC (28d) (static)	> 100 mg/l (Chironomus riparius) (OECD 219)
	Soil
NOEC (32d)	> 1 mg/l (Scenedesmus quadricauda)
NOEC (8d)	> 1,000 mg/l (Zebrafish - danio rerio) (OECD 212)

**2634-33-5 1,2-Benzisothiazol-3(2H)-one**

LC <sub>50</sub> (96h)	1.6 mg/l (Rainbow trout - oncorhynchus mykiss) (OECD 203)
EC <sub>50</sub> (48h)	3.27 mg/l (Water flea - daphnia magna)
	1.5 mg/l (Water flea - daphnia)
EC <sub>50</sub> (72h)	0.11 mg/l (Algae - selenastrum capricornutum) (OECD 201)
	2 mg/l (Algae scenedesmus subcapitatus)
EC <sub>50</sub> (16h)	0.4 mg/l (Pseudomonas putida)
EC <sub>10</sub> (72h)	0.04 mg/l (Algae - selenastrum capricornutum) (OECD 201)
NOEC (21d)	1.2 mg/l (Water flea - daphnia magna) (OECD 202)
NOEC (28d)	0.21 mg/l (Rainbow trout - oncorhynchus mykiss) (OECD 215)

**2682-20-4 2-Methyl-2H-isothiazol-3-one**

LC <sub>50</sub> (96h Marine water)	2.98 mg/l (Water flea - daphnia magna)
LC <sub>50</sub> (96h Freshwater)	0.934 mg/l (Water flea - daphnia magna)
LC <sub>50</sub>	4.77 mg/l (Fish) (OECD 203)
EC <sub>10</sub>	0.044 mg/l (Water flea - daphnia magna) (OECD 211)
	4.93 mg/l (Fish)
EC <sub>50</sub>	41 mg/l (Activated sewage sludge) (OECD 209)
	0.103 mg/l (Algae - pseudokirchneriella subcapitata) (OECD 201)
EC <sub>50</sub> (16h)	2.3 mg/l (Pseudomonas putida)

**Persistence and degradability**

A part of the components is biodegradable.

**Degree of elimination:****2634-33-5 1,2-Benzisothiazol-3(2H)-one**

Biodegradation	> 70 % (Activated sewage sludge) (OECD 303 A)
	> 90 % (not specified) (OECD 302 B)

**Bioaccumulative potential****2634-33-5 1,2-Benzisothiazol-3(2H)-one**

Log Kow	0.7 (not specified) (OECD 117)
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**Bioconcentration factor (BCF)****2634-33-5 1,2-Benzisothiazol-3(2H)-one**

Bioconcentration factor (BCF)	6.95 (not specified) (OECD 305)
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**Mobility in soil**

No further relevant information available.

**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

**Other adverse effects**

No further relevant information available.

**Literature**

No further relevant information available.

**Ecotoxicological effects:**

No further relevant information available.

**Behaviour in sewage processing plants:****Styrene acrylates copolymer**EC<sub>20</sub> (0,5h) > 100 mg/l (Activated sludge organisms)**2634-33-5 1,2-Benzisothiazol-3(2H)-one**EC<sub>20</sub> (0,5h) 3.3 mg/l (Activated sludge organisms) (OECD 209)EC<sub>20</sub> (3h) 3.3 mg/l (Activated sludge organisms) (OECD 209)EC<sub>50</sub> (3h) 13 mg/l (Activated sludge organisms) (OECD 209)

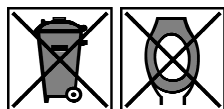
OECD 302 B Zahn Wellens Test 90 % (Activated sludge organisms) (OECD 302)

OECD 303 A Activated Sludge Units % (Rat)

&gt; 70 % (Activated sludge organisms) (OECD 303 A)

**2682-20-4 2-Methyl-2H-isothiazol-3-one**EC<sub>20</sub> (3h) 2.8 mg/l (Activated sludge organisms) (DIN 38412-3 TTC-Test)**Additional ecological information:****General notes:**

Not hazardous for water.

**SECTION 13: Disposal considerations****Waste treatment methods****Recommendation:**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Dispose of contents/container in accordance with local/regional/national/international regulations.

17 09 04 for the setted product

08 01 20 for residues of the unprocessed product

15 01 02 for the completely emptied packaging

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**Uncleaned packaging****Recommendation:**

Disposal must be made according to official regulations.

Recycle only completely emptied packaging.

**SECTION 14: Transport information**

<b>UN number or ID number</b> <b>ADR, ADN, IMDG, IATA</b>	Void
<b>UN proper shipping name</b> <b>ADR, ADN, IMDG, IATA</b>	Void
<b>Transport hazard class(es)</b> <b>ADR, ADN, IMDG, IATA</b> <b>Class</b>	Void
<b>Packing group</b> <b>ADR, IMDG, IATA</b>	Void
<b>Environmental hazards</b> <b>Marine pollutant:</b>	No
<b>Special precautions for user</b>	Not applicable
<b>Maritime transport in bulk according to IMO instruments</b>	Not applicable
<b>UN "Model Regulation":</b>	Void

**SECTION 15: Regulatory information**

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

**Poisons Act****Regulated explosives precursors**

None of the ingredients is listed.

**Regulated poisons**

None of the ingredients is listed.

**Reportable explosives precursors**

7631-99-4	Sodium nitrate	Listed
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**Reportable poisons**

1310-73-2	Sodium hydroxide	12% of total caustic alkalinity
50-00-0	Formaldehyde	5%

**GHS label elements** Void**Hazard pictograms** Void**Signal word** Void**Hazard statements** Void**Directive (EU) 2012/18****Named dangerous substances - ANNEX I :**

None of the ingredients is listed.

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**Biozide ingredients (528/2012/EG):**

Data based on recipe and information on the raw materials from the supply chain.

1,2-Benzisothiazol-3(2H)-one	< 0.03%
Tetramethylolacetylene diurea	< 0.03%
2-Methyl-2H-isothiazol-3-one	< 0.0015%

**Classification according 2004/42/EG:**

IIA(c) 40 - this product contains &lt; 40 g/l VOC (see chapter 9)

**Chemical safety assessment**

A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information****Reasons for changes:**

\* Data compared to the previous version altered.

**Relevant phrases:**

H301 Toxic if swallowed.  
H302 Harmful if swallowed.  
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.  
H330 Fatal if inhaled.  
H400 Very toxic to aquatic life.

**Advice for instructions:**

Additional trainings, which go beyond the prescribed training in activities involving hazardous substances are not required.

**Literature and the data sources:****Department issuing MSDS:**

Product safety department (+43/(0)5522-41646-0 / klaus.ritter@fixit-gruppe.com)

**Contact:**

Dr. Klaus Ritter

**Date of previous version:** 26.05.2023**Version number of previous version:** 2**Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
ICAO: International Civil Aviation Organisation  
MAK: Maximale Arbeitsplatz-Konzentration (maximum concentration of a chemical substance in the workplace, Austria/Germany)  
PBT: persistent, bioaccumulative and toxic properties  
vPvB: very persistent, bioaccumulative properties  
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
VOC: Volatile Organic Compounds (USA, EU)  
DNEL: Derived No-Effect Level (UK REACH)  
PNEC: Predicted No-Effect Concentration (UK REACH)  
LC50: Lethal concentration, 50 percent

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**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

**KREISEL®**

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LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
ATE: Acute toxicity estimate values  
Acute Tox. 3: Acute toxicity – Category 3  
Acute Tox. 4: Acute toxicity – Category 4  
Acute Tox. 2: Acute toxicity – Category 2  
Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Skin Sens. 1: Skin sensitisation – Category 1  
Skin Sens. 1A: Skin sensitisation – Category 1A  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

**Further information:**

The information in this safety data sheet describe the safety requirements of our product and is based on our current state of our knowledge. They provide no assurance of product quality. Existing laws, ordinances and regulations, including those that are not mentioned in this data sheet must be observed by the recipient of our products in their own responsibility.

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