

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name:****NANOTECH PAINT 006**

Nano-particle silicone facade paint

**1.2 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**

PC9a Coatings and paints, thinners, paint removers

**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**

Dispersion paint/ Latex paint - Product for an industrial, technical and private use for coating building surfaces. For all other uses is advised against/ not recommended.

**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**KREISEL Slovensko s.r.o.  
Železničná 932  
900 55 Lozorno  
Slovakia

Tel.: +421 (0)2 6010 2411

Fax: +421 (0)2 6596 8221

odbyt@kreisel.sk

kreisel.sk

**Further information obtainable from:**

Product safety department (on working days 8:00 - 16:00)

**1.4 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****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

**Additional information:**

The product contains encapsulated biocides. These only release a small part of the biocidal active ingredients. Based on the results of similar tested mixtures and applying the transfer principles according to EC 1272/2008 Article 9 (4), the product does not have to be classified as a skin sensitizer, see Section 16 Literature.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the GB CLP regulation.

**Hazard pictograms**

Void

**Signal word**

Void

**Hazard statements**

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P273 Avoid release to the environment.

P501 Dispose of contents/container in keeping with local and national regulations.

**Additional information:**

EUH208 Contains 2-Octyl-2H-isothiazol-3-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.

Contains the following biocidal active ingredients to protect the product. Please note the information in the safety data sheet and the legal regulations: ZINC PYRITHIONE, OIT, MIT

**2.3 Other hazards**

No further relevant information available.

**Results of PBT and vPvB assessment****PBT:**

This substance/mixture contains no components classified as persistent, bioaccumulative and toxic (PBT) at levels of 0.1% or higher.

**vPvB:**

This substance/mixture contains no components classified as very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**Determination of endocrine-disrupting properties**

This substance/mixture does not contain components with endocrine disrupting properties according to the criteria of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentrations of 0.1% or higher.

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**SECTION 3: Composition/information on ingredients**

**3.1 Chemical characterization: Substances**

This product is a mixture.

**3.2 Mixtures**

**Description:**

Mixture of silicone- and other polymer dispersion and nonhazardous fillers and additions.

**Dangerous components:**

CAS: 13463-67-7 EINECS: 236-675-5 Index number:... 022-006-00-2 REACH: 01-2119489379-17	Titanium dioxide ( $\geq 1\%$ particles $\leq 10\mu\text{m}$ ) Substance with a Community workplace exposure limit	5 - 10%
CAS: 57-55-6 EINECS: 200-338-0 REACH: 01-2119456809-23	Propane-1,2-diol Substance with a Community workplace exposure limit	1 - 2.5%
CAS: 13463-41-7 EINECS: 236-671-3 Index number:... 613-333-00-7 REACH: 01-2119511196-46	Pyrithione zinc ⚠ Acute Tox. 3, H301; Acute Tox. 2, H330; ⚠ Repr. 1B, H360D; STOT RE 1, H372; ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=1000); Aquatic Chronic 1, H410 (M=10) ATE: LD <sub>50</sub> oral: 221 mg/kg	$\geq 0.0025$ - $< 0.01\%$
CAS: 886-50-0 EINECS: 212-950-5 REACH: 2	2-tert-Butylamino-4-ethylamino-6-methylthio-s-triazine (Terbutryn) ⚠ Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); ⚠ Acute Tox. 4, H302; Skin Sens. 1B, H317; PMT, EUH450 Specific concentration limit: Skin Sens.1B; H317: C $\geq 3\%$	$\geq 0.0025$ - $< 0.005\%$
CAS: 26530-20-1 EINECS: 247-761-7 Index number:... 613-112-00-5 REACH: 01-2120768921-45	2-Octyl-2H-isothiazol-3-one ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; ⚠ Skin Corr. 1, H314; Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); ⚠ Skin Sens. 1A, H317, EUH071 ATE: LD <sub>50</sub> oral: 125 mg/kg LD <sub>50</sub> dermal: 311 mg/kg Specific concentration limit: Skin Sens.1A; H317: C $\geq 0.0015\%$	$\geq 0.00025$ - $< 0.0015\%$
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; Eye Dam. 1, H318; ⚠ Aquatic Chronic 1, H410; ⚠ Skin Sens. 1, H317 Specific concentration limit: Skin Sens. 1;H317: C $\geq 0.0015\%$	$< 0.0015\%$

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

CAS: 1317-65-3 EINECS: 215-279-6 REACH: 1	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%); 68476-25-5 Feldspar-group minerals (0 - 5%); 12001-26-2 Mica-group minerals (0 - 5%)	25 - 50%
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CAS: 7732-18-5  
EINECS: 231-791-2  
REACH: <sup>1</sup>

Water

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  $\leq 10 \mu\text{m}$ .

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

<sup>2</sup> A registration number for this substance / mixture is not available. The substance is exempt from registration, the annual tonnage does not require registration, or registration is scheduled for later.

## SECTION 4: First aid measures

**4.1 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.

**4.2 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.

**4.3 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.

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### **SECTION 5: Firefighting measures**

#### **5.1 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.

#### **5.2 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.

#### **5.3 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**

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

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

#### **6.2 Environmental precautions**

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

#### **6.3 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.

#### **6.4 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**

#### **7.1 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.

#### **7.2 Conditions for safe storage, including any incompatibilities**

##### **Requirements to be met by storerooms and receptacles:**

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

##### **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.

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**Minimum storage life:**

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

**Storage class: 12****Classification according to the German Industrial Safety and Health Ordinance (BetrSichV): -****7.3 Specific end use(s)**

No further relevant information available.

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

**8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:****13463-67-7 Titanium dioxide ( $\geq 1\%$  particles  $\leq 10\mu\text{m}$ )**

WEL (Great Britain)	Long-term value: 10* 4** mg/m <sup>3</sup> *total inhalable **respirable
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**57-55-6 Propane-1,2-diol**

WEL (Great Britain)	Long-term value: 474* 10** mg/m <sup>3</sup> , 150* ppm *total vapour and particulates **particulates
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**DNELs****13463-67-7 Titanium dioxide ( $\geq 1\%$  particles  $\leq 10\mu\text{m}$ )**

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

**57-55-6 Propane-1,2-diol**

Inhalative	Systemic - Long term exposure	10 mg/m <sup>3</sup> (Consumer) 10 mg/m <sup>3</sup> (Employee)
	Systemic - Short term exposure	50 mg/m <sup>3</sup> (Consumer) 168 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 ( $\geq 1\%$  particles  $\leq 10\mu\text{m}$ )**

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

**57-55-6 Propane-1,2-diol**

Freshwater	260 mg/l (not specified)
Marine water	26 mg/l (not specified)
Soil	50 mg/kg (not specified)

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Sediments (Freshwater)	572 mg/kg (not specified)
Sediments (Marine water)	57.2 mg/kg (not specified)
Sewage plant	20,000 mg/l (not specified)
<b>13463-41-7 Pyrithione zinc</b>	
Freshwater	0.0009 mg/l (not specified)
Marine water	0.0009 mg/l (not specified)
Soil	1.02 mg/kg (not specified)
Sediments (Freshwater)	0.0009 mg/kg (not specified)
Sediments (Marine water)	0.0009 mg/kg (not specified)
Sewage plant	0.01 mg/l (not specified)
<b>26530-20-1 2-Octyl-2H-isothiazol-3-one</b>	
Freshwater	0.0022 mg/l (not specified)
Marine water	0.0022 mg/l (not specified)
Soil	0.0082 mg/kg (not specified)
Sewage plant	0.0475 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 Occupational Exposure Limit Values for possible hazards during processing:****14808-60-7 Silicon dioxide (fine dust)**

BOELV (EU)	Long-term value: 0.1* mg/m <sup>3</sup> *respirable fraction
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**Additional information:**

The lists valid during the making were used as basis.

**8.2 Exposure controls****8.2.1. Information about design of technical facilities**

No further data; see item 7.

**8.2.2. 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)

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### 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.)

### 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.

### 8.2.3. Environmental exposure controls

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

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

#### Physical state

Liquid

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<b>Appearance:</b>	
<b>Form:</b>	Fluid
<b>Colour:</b>	Different according to colouring
<b>Odour:</b>	Mild
<b>Odour threshold:</b>	Not safety relevant
<b>pH at 20 °C (68 °F)</b>	8 - 10
<b>Change in condition</b>	
<b>Melting point/freezing point:</b>	~ 0 °C (~ 32 °F) (ISO 3016)
<b>Boiling point or initial boiling point and boiling range</b>	100 °C (212 °F)
<b>Flammability</b>	Product is not flammable.
<b>Flash point:</b>	Not applicable
<b>Auto-ignition temperature:</b>	> 400 °C (> 752 °F) (DIN 51794)
<b>Decomposition temperature:</b>	> 825°C to CaO and CO <sub>2</sub>
<b>Oxidising properties:</b>	None
<b>Explosive properties:</b>	Product does not present an explosion hazard.
<b>Lower and upper explosion limit</b>	
<b>Lower:</b>	Not determined
<b>Upper:</b>	Not determined
<b>Ignition temperature:</b>	Product is not selfigniting.
<b>Vapour pressure at 20 °C (68 °F):</b>	23 hPa (17.3 mm Hg)
<b>Density and/or relative density</b>	
<b>Density at 20 °C (68 °F):</b>	1.4 - 1.6 g/cm <sup>3</sup> (11.68 - 13.35 lbs/gal)
<b>Particle size</b>	
<b>Viscosity:</b>	
<b>Dynamic at 20 °C (68 °F):</b>	> 1,000 mPas (DIN 53019)
<b>Solubility</b>	
<b>Water:</b>	Fully miscible
<b>Partition coefficient n-octanol/water (log value)</b>	Not determined
<b>Solids content:</b>	59 - 63 %
<b>Solvent content:</b>	
<b>Organic solvents:</b>	1.6 %
<b>VOC without water (EC):</b>	47.26 - 64.18 g/l
<b>VOC with water (EC):</b>	22.41 - 25.62 g/l
<b>VOC with water (EC):</b>	1.601 %

**9.2 Other information**

**Information with regard to physical hazard classes**

<b>Explosive substances / mixtures and articles containing 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

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<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**

**10.1 Reactivity**

No dangerous reactions known.

**10.2 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.

**10.3 Possibility of hazardous reactions**

No dangerous reactions known.

**10.4 Conditions to avoid**

No further relevant information available.

**10.5 Incompatible materials**

No further relevant information available.

**10.6 Hazardous decomposition products**

No dangerous decomposition products known.

**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**

**11.1 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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**13463-67-7 Titanium dioxide (≥ 1% particles ≤ 10µm)**

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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**57-55-6 Propane-1,2-diol**

Oral	LD <sub>50</sub>	> 2,000 mg/kg (Rat) (OECD 401 Acute Oral Toxicity)
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Dermal	LD <sub>50</sub>	20,800 mg/kg (Rabbit) (OECD 402 Acute Dermal Toxicity)
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**13463-41-7 Pyrithione zinc**

Oral	LD <sub>50</sub>	221 mg/kg (ATE) 269 mg/kg (Rat) (OECD 401)
	Carcinogenicity	0.5 (Rat) (NOAEL mg/kg bw/day)
Dermal	LD <sub>50</sub>	> 2,000 mg/kg (Rat) (EPA OPP 81-2)
Inhalative	LC <sub>50</sub> (4h)	0.05 mg/l (ATE)
	LC <sub>50</sub> (4h)	1.03 mg/l (Rat) (OECD 403)

**886-50-0 2-tert-Butylamino-4-ethylamino-6-methylthio-s-triazine (Terbutryn)**

Oral	LD <sub>50</sub>	500 mg/kg (Rat) (OECD 423) S 1219
Dermal	LD <sub>50</sub>	> 2,000 mg/kg (Rat) (OECD 402) S 1220
Inhalative	LC <sub>50</sub> (4h)	5.21 mg/l (Rat) (OECD 403) S 1221, dust

**26530-20-1 2-Octyl-2H-isothiazol-3-one**

Oral	LD <sub>50</sub>	125 mg/kg (ATE) 125 mg/kg (Rat) (OECD 401)
Dermal	LD <sub>50</sub>	311 mg/kg (ATE) 311 mg/kg (Rat) (OECD 402)
Inhalative	LC <sub>50</sub> (4h)	0.5 mg/l (ATE)

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

Oral	LD <sub>50</sub>	232 - 249 mg/kg (Rat) (OECD 401)
Dermal	LD <sub>50</sub>	242 mg/kg (Rat) (OECD 402)
Inhalative	LC <sub>50</sub> (4h)	0.05 mg/l (ATE)
	LC <sub>50</sub> (4h)	0.11 mg/l (Rat) (OECD 403)

**Other information (about experimental toxicology):**

**13463-67-7 Titanium dioxide (≥ 1% particles ≤ 10µm)**

Oral	OECD 414	(Rat) no effects observed
Irritation of skin	OECD 404	(Rabbit) not corrosive
Irritation of eyes	OECD 405	(Rabbit) not irritant
Sensitisation	OECD 429	(Mouse) not sensitizing
	OECD 421 (Reproduction screening test)	(Rat) no effects observed

**13463-41-7 Pyrithione zinc**

Irritation of skin	OECD 404	(Rabbit) not irritating
Irritation of eyes	OECD 405	(Rabbit) Category 1 (irreversible effects on the eye)
Sensitisation	OECD 406	(Guinea pig) not sensitizing

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<b>886-50-0 2-tert-Butylamino-4-ethylamino-6-methylthio-s-triazine (Terbutryn)</b>		
Oral	OECD 414	(Rabbit) (OECD 414) S 1358
	OECD 471	(Salmonella typhimurium) (OECD 471) S 1231
	OECD 473	(Chinese hamster, oocyte) (OECD 473) S 1232
	OECD 476	(Chinese hamster, oocyte) (OECD 476) S 1233
Irritation of skin	OECD 404	(Rabbit) (OECD 404) not irritant - S 1222
Irritation of eyes	OECD 405	(Rabbit) (OECD 405) not irritant - S 1419
Sensitisation	OECD 429	(Mouse) (OECD 429) sensitizing - S 1224
<b>26530-20-1 2-Octyl-2H-isothiazol-3-one</b>		
Oral	OECD 471	(Salmonella typhimurium) Negative
Irritation of skin	OECD 404	(Rabbit) Corrosive Category 1B
Irritation of eyes	OECD 405	(Rabbit) Irreversible effects Category 1
Sensitisation	OECD 406	(Guinea pig) Sensitizing Category 1
<b>2682-20-4 2-Methyl-2H-isothiazol-3-one</b>		
Oral	OECD 408 (Repeated dose oral toxicity 90d)	19 mg/kg bw/day (Rat)
Irritation of skin	OECD 404	(Rabbit) corrosive
Sensitisation	OECD 406	(Guinea pig) sensitizing

**Primary irritant effect:****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:**

The product contains encapsulated biocides. These only release a small part of the biocidal active ingredients. Based on the results of similar tested mixtures and applying the transfer principles according to EC 1272/2008 Article 9 (4), the product does not have to be classified as a skin sensitizer, see Section 16 Literature.

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.

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**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.

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

None of the ingredients is listed.

## SECTION 12: Ecological information

**12.1 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 (Fish - 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)

**13463-67-7 Titanium dioxide (≥ 1% particles ≤ 10µm)**

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 (Algae - scenedesmus quadricauda)
NOEC (8d)	> 1,000 mg/l (Fish - danio rerio) (OECD 212)

**57-55-6 Propane-1,2-diol**

LC <sub>50</sub> (96h)	18,800 mg/l (Americamysis bahia) 40,613 mg/l (Fish - oncorhynchus mykiss)
LC <sub>50</sub> (48h)	18,340 mg/l (Water flea - ceriodaphnia dubia)
LC <sub>50</sub>	6,983 mg/l (Crustaceans - corophium volutator)

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EC <sub>50</sub> (96h)	317 mg/l (Rabbit) (OECD 403 Acute Inhalation Toxicity) 19,000 mg/l (Algae - pseudokirchneriella subcapitata) (OECD 201 Freshwater Grow Inhibition Test) 19,100 mg/l (Algae - skeletonema costatum) (OECD 201 Freshwater Grow Inhibition Test)
NOEC (18h)	> 20,000 mg/l (Algae - pseudokirchneriella subcapitata)
NOEC (7d)	13,020 mg/l (Water flea - ceriodaphnia dubia)

**13463-41-7 Pyrithione zinc**

LC <sub>50</sub> (96h)	0.0104 mg/l (Fish - danio rerio) (OECD 203) S 3026
EC <sub>50</sub> (48h)	0.06 mg/l (Fish - oncorhynchus mykiss) 0.05 mg/l (Water flea - daphnia magna) 0.05 mg/l (Water flea - daphnia) (OECD 202) S 3024
EC <sub>50</sub> (72h)	0.051 mg/l (Algae - pseudokirchneriella subcapitata) (OECD 201)
IC <sub>50</sub> (72h)	0.067 mg/l (Algae - selenastrum capricornutum)
NOEC (72h)	0.0149 mg/l (Algae - pseudokirchneriella subcapitata) (OECD 201)
NOEC (21d)	0.0022 mg/l (Water flea - daphnia magna) (OECD 211)
NOEC (96h)	0.00046 mg/l (Algae - skeletonema costatum) (OECD 201)
NOEC (28d)	0.00125 mg/l (Fish - danio rerio) (OECD 215)

**886-50-0 2-tert-Butylamino-4-ethylamino-6-methylthio-s-triazine (Terbutryn)**

LC <sub>50</sub> (96h)	1.9 mg/l (Fish - oncorhynchus mykiss) (OECD 203) S 1242
EC <sub>50</sub> (48h)	6.4 mg/l (Water flea - daphnia)
EC <sub>50</sub> (72h)	0.0067 mg/l (Algae - desmodesmus subspicatus) (OECD 201) S 1244
IC <sub>50</sub> (72h)	0.0055 mg/l (Algae - selenastrum capricornutum) (OECD 201)
NOEC (72h)	0.0005 mg/l (Algae - desmodesmus subspicatus) (OECD 201) S 1244
NOEC (21d)	0.05 mg/l (Water flea - daphnia) (OECD 211) S 1240
NOEC (28d)	0.073 mg/l (Fish - pimephales promelas) (OECD 210) S 1241

**26530-20-1 2-Octyl-2H-isothiazol-3-one**

LC <sub>50</sub> (96h)	0.03 mg/l (Fish - oncorhynchus mykiss)
LC <sub>50</sub> (96h Freshwater)	0.122 mg/l (Fish)
EC <sub>10</sub>	0.068 mg/l (Algae) 0.022 mg/l (Fish) 0.035 mg/l (Aquatic invertebrates)
EC <sub>50</sub>	30.4 mg/l (Activated sewage sludge)
EC <sub>50</sub> (48h)	0.32 mg/l (Water flea - daphnia magna) 0.42 mg/l (Water flea - daphnia) (OECD 202)
EC <sub>50</sub> (72h)	0.084 mg/l (Algae scenedesmus subcapitatus) (OECD 201) S 63
EC <sub>50</sub> (96h)	0.047 mg/l (Fish - oncorhynchus mykiss) (OECD 203)
EC <sub>50</sub> /LC <sub>50</sub>	0.15 mg/l (Algae) 0.181 mg/l (Aquatic invertebrates)

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IC <sub>50</sub> (72h)	0.084 mg/l (Algae scenedesmus subcapitatus) (OECD 201)
<b>2682-20-4 2-Methyl-2H-isothiazol-3-one</b>	
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)

**12.2 Persistence and degradability**

A part of the components is biodegradable.

**26530-20-1 2-Octyl-2H-isothiazol-3-one**

Oral	OECD 309 Simulation Biodegradation - Surface Water	0.6 - 1.4 d (not specified) S 635
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**Degree of elimination:****57-55-6 Propane-1,2-diol**

Biodegradation	98 % (Soil) 105 d
	81.7 % (Water) 28 d

**13463-41-7 Pyrithione zinc**

OECD 308	0.5 d (Sediments) (OECD 308)
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**886-50-0 2-tert-Butylamino-4-ethylamino-6-methylthio-s-triazine (Terbutryn)**

Biodegradation	< 70 % (Activated sewage sludge) (OECD 303 A) S 1237
	0 % (Activated sludge organisms) (OECD 301 F) S 1238

**12.3 Bioaccumulative potential****886-50-0 2-tert-Butylamino-4-ethylamino-6-methylthio-s-triazine (Terbutryn)**

Log Kow	3.19 (not specified) (OECD 117) S 1211
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**26530-20-1 2-Octyl-2H-isothiazol-3-one**

OECD 107 LogKow (Shake Flask Method)	2.92 (n-Octanol / Water)
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**Bioconcentration factor (BCF)****886-50-0 2-tert-Butylamino-4-ethylamino-6-methylthio-s-triazine (Terbutryn)**

Bioconcentration factor (BCF)	103 (calculated) EPWIN
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**12.4 Mobility in soil**

No further relevant information available.

**12.5 Results of PBT and vPvB assessment****PBT:**

This substance/mixture contains no components classified as persistent, bioaccumulative and toxic (PBT) at levels of 0.1% or higher.

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**vPvB:**

This substance/mixture contains no components classified as very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Endocrine disrupting properties**

This substance/mixture does not contain components with endocrine disrupting properties according to the criteria of Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentrations of 0.1% or higher.

**12.7 Other adverse effects****Literature**

No further relevant information available.

**Ecotoxicological effects:**

No further relevant information available.

**Behaviour in sewage processing plants:****13463-41-7 Pyrrithione zinc**

EC <sub>20</sub> (3h)	1.34 mg/l (Activated sludge organisms) (OECD 209)
EC <sub>50</sub> (3h)	2.8 mg/l (Activated sludge organisms) (OECD 209)

**886-50-0 2-tert-Butylamino-4-ethylamino-6-methylthio-s-triazine (Terbutryn)**

EC <sub>20</sub> (3h)	> 100 mg/l (Activated sludge organisms) (OECD 209)
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**26530-20-1 2-Octyl-2H-isothiazol-3-one**

EC <sub>20</sub> (0,5h)	10.4 mg/l (Activated sewage sludge) (TTC-Test 8901 Macherey Nagel)
EC <sub>20</sub> (3h)	7.3 mg/l (Activated sewage sludge) (OECD 209)
OECD 303 A Activated Sludge Units	> 83 % (Activated sewage sludge) S 313

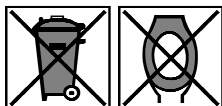
**2682-20-4 2-Methyl-2H-isothiazol-3-one**

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

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.

## SECTION 13: Disposal considerations

**13.1 Waste treatment methods****Recommendation:**

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

Risk of environmental pollution. Follow the applicable regulations on waste disposal. Keep unused products and contaminated packaging sealed. Provide containers for waste collection. Hand over for disposal to a specialist company authorised to carry out such activities. Prevent the product from being released into the environment. Do not allow the product to enter the sewage system. Must not be disposed of with municipal waste. Empty containers can be utilised for energy recovery in a waste incineration plant or, if classified accordingly, collected at a landfill site. Perfectly cleaned packaging can be recycled.

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

<b>European waste catalogue</b>	
08 01 12	Waste paint and varnish other than those mentioned in 08 01 11
15 01 02	Plastic packaging
HP14	Ecotoxic

08 01 12 for residues of the unprocessed product  
15 01 02 for the completely emptied packaging

**Uncleaned packaging**

**Recommendation:**

Disposal must be made according to official regulations.  
Recycle only completely emptied packaging.

**Recommended cleansing agents:**

Water, if necessary together with cleansing agents.

**SECTION 14: Transport information**

<b>14.1 UN number or ID number</b> ADR, ADN, IMDG, IATA	Void
<b>14.2 UN proper shipping name</b> ADR, ADN, IMDG, IATA	Void
<b>14.3 Transport hazard class(es)</b> ADR, ADN, IMDG, IATA Class	Void
<b>14.4 Packing group</b> ADR, IMDG, IATA	Void
<b>14.5 Environmental hazards</b> Marine pollutant:	No
<b>14.6 Special precautions for user</b>	Not applicable
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable
<b>UN "Model Regulation":</b>	Void

**SECTION 15: Regulatory information**

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

<b>Regulated explosives precursors</b>
None of the ingredients is listed.

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**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
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**Directive 2004/42/EC**

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

Product type: PAINTS AND VARNISHES

- Product subcategory: Exterior walls of mineral substrate
- Water-borne coatings, Limit value: 40 g/l

**Directive (EU) 2012/18**

**Named dangerous substances - ANNEX I :**

None of the ingredients is listed.

**REGULATION (EC) No 1907/2006 ANNEX XVII :**

Conditions of restriction: 3

**Additional information on Entry 78**

The product does not contain synthetic polymeric microplastics &gt;0.01% according to EC 2055/2023.

**Regulation (EU) No 649/2012**

**Annex I - RESTRICTED EXPLOSIVES PRECURSORS**

(Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients are included.

**Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

**Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

**National regulations:**

**Waterhazard class:**

Water hazard class 2 (Self-assessment): Hazardous for water

**Other regulations, limitations and prohibitive regulations:**

· Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (UK REACH), establishing a 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

· Commission Regulation (EU) No 878/2020 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 (UK REACH)

· Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 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

· Commission regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (UK REACH)

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·Regulation (EC) No 1013/2006 of the European Parliament and of the Council of 14 June 2006 on shipments of waste

·Regulation (EC) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products

**15.2 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:**

EUH450 Can cause long-lasting and diffuse contamination of water resources.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

H360D May damage the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

**Advice for instructions:**

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

**Classification according to Regulation (EC) No 1272/2008**

Hazardous to the aquatic environment - long-term (chronic) aquatic hazard

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

**Literature and the data sources:**

Test reports S4565, S5145, S5147 according to OECD 429 (rLLNA, mouse)

**Department issuing MSDS:**

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

**Contact:**

Dr. Klaus Ritter

**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

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GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
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  
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. 1: Skin corrosion/irritation – Category 1  
Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Skin Sens. 1: Skin sensitisation – Category 1  
Skin Sens. 1A: Skin sensitisation – Category 1A  
Skin Sens. 1B: Skin sensitisation – Category 1B  
Repr. 1B: Reproductive toxicity – Category 1B  
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1  
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

**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.