

**Section 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product name: ZWpro™ BC-222 HOCHTEMPERATURSILIKON

Art.-Nr. 73604

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Use of substance / mixture: PC1: Adhesives, sealants.

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

Company name: Zwegart Fachhandelsgruppe GmbH &amp; Co. KG

Erich-Kiefer-Str. 10 – 14

D-71116 Gärtringen

Deutschland

Tel: +49 (0)7034 122-636

Fax: +49 (0)7034 122-557

Email: info@zwegart.de

**1.4. Emergency telephone number**

Giftinformationszentrum (GGIZ), HELIOS Klinikum Erfurt, Tel. +49-361-730730

**Section 2: Hazards identification****2.1. Classification of the substance or mixture**

Classification under CLP: -: EUH210

Classification under CHIP: This product has no classification under CHIP.

**2.2. Label elements****Label elements under CLP:**

Hazard statements: EUH210: Safety data sheet available on request.

**Label elements under CHIP:**

Hazard symbols: No significant hazard.

Precautionary phrases: Safety data sheet available for professional user on request.

**2.3. Other hazards**

PBT: This product is not identified as a PBT/vPvB substance.

**Section 3: Composition/information on ingredients****3.2. Mixtures****Hazardous ingredients:**

TRIACETOXYETHYLSILAN - REACH registered number(s): 01-2119881778-15-0000

EINECS	CAS	CHIP Classification	CLP Classification	Percent
241-677-4	17689-77-9	-: R14; Xn: R22; C: R34	Acute Tox. 4: H302; Skin Corr. 1B: H314; Eye Dam. 1: H318	3-4%

**Section 4: First aid measures****4.1. Description of first aid measures**

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. In case of persisting irritation call in a physician. Where possible show the physician container or label.

[cont...]

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**Eye contact:** After separating the eyelids immediately flush eyes thoroughly with plenty of water. In case eye irritation persists, consult an oculist.

**Ingestion:** Do not induce vomiting. Wash out mouth with water. Give 1 cup of water to drink every 10 minutes. Consult a doctor.

**Inhalation:** Move to fresh air in case of accidental inhalation of vapours. Consult a doctor.

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

**Skin contact:** There may be irritation and redness at the site of contact. For a preparation of very similar composition, minor reversible effects were observed but the preparation was not irritant to skin or eyes according to EU criteria.

**Eye contact:** There may be irritation and redness. For a preparation of very similar composition, minor reversible effects were observed but the preparation was not irritant to skin or eyes according to EU criteria.

**Inhalation:** Product releases acetic acid during curing. After curing, product is odourless and indifferent.

**Delayed / immediate effects:** Delayed effects can be expected after long-term exposure.

### 4.3. Indication of any immediate medical attention and special treatment needed

**Immediate / special treatment:** Treat symptomatically.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Carbon dioxide. Dry chemical powder. Water spray. Alcohol or polymer foam. Suitable extinguishing media for the surrounding fire should be used.

### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** In combustion emits toxic fumes. Forms explosive air-vapour mixture. Heating will cause pressure rise - risks of bursting and explosion.

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. Closed containers near to the fire should be cooled with water (spray). Container may burst upon heating.

## Section 6: Accidental release measures

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

**Personal precautions:** Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. Eliminate all sources of ignition.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers.

### 6.3. Methods and material for containment and cleaning up

**Clean-up procedures:** Refer to section 13 of SDS for suitable method of disposal. Allow curing, the product can be disposed (category: commercial waste, municipal waste)

### 6.4. Reference to other sections

**Reference to other sections:** Refer to section 8 of SDS.

## Section 7: Handling and storage

**7.1. Precautions for safe handling**

**Handling requirements:** Ensure there is sufficient ventilation of the area. Do not eat, drink or smoke during application. Avoid direct contact with the substance.

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

**Storage conditions:** Store in cool, well ventilated area. Avoid contact with water or humidity. Keep away from direct sunlight.

**Suitable packaging:** Must only be kept in original packaging.

**7.3. Specific end use(s)**

**Specific end use(s):** No data available.

**Section 8: Exposure controls/personal protection****8.1. Control parameters**

**Workplace exposure limits:** No data available.

**DNEL/PNEC Values**

**DNEL / PNEC** No data available.

**8.2. Exposure controls**

**Engineering measures:** Ensure there is sufficient ventilation of the area.

**Respiratory protection:** Respiratory protection not required. Breathing apparatus in the event of high concentration. Gas/vapour filter, type A: organic vapours (EN141).

**Hand protection:** Butyl gloves. Nitrile gloves. PVC gloves. Breakthrough time of the glove material > 1 hour.

**Eye protection:** Safety glasses with side-shields.

**Skin protection:** Protective clothing.

**Section 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

**State:** Paste

**Colour:** Various

**Odour:** Characteristic odour

**Viscosity:** Highly viscous

**Kinematic viscosity:** > 1000

**Viscosity test method:** Kinematic viscosity in 10<sup>-6</sup> m<sup>2</sup>/s at 40°C (ISO 3219)

**Flammability limits %: lower:** 4

**upper:** 17

**Flash point°C:** > 150

**Autoflammability°C:** ca. 427

**Relative density:** 1.0 - 1.3

**VOC g/l:** < 30

**9.2. Other information**

**Other information:** No data available.

**Section 10: Stability and reactivity****10.1. Reactivity**

**Reactivity:** Stable under recommended transport or storage conditions.

**10.2. Chemical stability**

**Chemical stability:** Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.

**10.4. Conditions to avoid**

**Conditions to avoid:** Humidity. Heat. Direct sunlight.

**10.5. Incompatible materials**

**Materials to avoid:** Water. Acids. Strong oxidising agents. Strong reducing agents.

**10.6. Hazardous decomposition products**

**Haz. decomp. products:** In combustion emits toxic fumes of carbon dioxide / carbon monoxide. In combustion emits toxic fumes of nitrogen oxides. Silica. Release of acetic acid in low amounts upon contact with water/humidity.

**Section 11: Toxicological information****11.1. Information on toxicological effects**

**Hazardous ingredients:**

**TRIACETOXYETHYLSILAN**

ORAL	RAT	LD50	380	mg/kg
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**Toxicity values:** No data available.

**Symptoms / routes of exposure**

**Skin contact:** There may be irritation and redness at the site of contact. For a preparation of very similar composition, minor reversible effects were observed but the preparation was not irritant to skin or eyes according to EU criteria.

**Eye contact:** There may be irritation and redness. For a preparation of very similar composition, minor reversible effects were observed but the preparation was not irritant to skin or eyes according to EU criteria.

**Inhalation:** Product releases acetic acid during curing. After curing, product is odourless and indifferent.

**Delayed / immediate effects:** Delayed effects can be expected after long-term exposure.

**Section 12: Ecological information****12.1. Toxicity**

**Hazardous ingredients:**

**TRIACETOXYETHYLSILAN**

Daphnia magna	48H EC50	62	mg/l
FISCH	96H LC50	251	mg/l
Selenastrum capricornutum	72H IC50	73	µg/l

**12.2. Persistence and degradability**

**Persistence and degradability:** Not biodegradable.

**12.3. Bioaccumulative potential**

**Bioaccumulative potential:** No bioaccumulation potential.

**12.4. Mobility in soil**

**Mobility:** Non-volatile. Insoluble in water.

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

**PBT identification:** This product is not identified as a PBT/vPvB substance.

**12.6. Other adverse effects****Section 13: Disposal considerations****13.1. Waste treatment methods**

**Disposal operations:** Dispose of as hazardous waste. Allow product to cure and dispose [landfilling - category: commercial wastes or municipal wastes].

**Waste code number:** 08 04 09, 08 04 99

**Disposal of packaging:** Empty (clean) container can be disposed off (category: commercial waste, municipal waste).

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

**Section 14: Transport information****14.1. UN number**

**UN number:** UN0000

**14.2. UN proper shipping name****14.3. Transport hazard class(es)****14.4. Packing group****14.5. Environmental hazards**

**Environmentally hazardous:** No

**Marine pollutant:** No

**14.6. Special precautions for user**

**Special precautions:** No special precautions.

**Section 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.2. Chemical Safety Assessment****Section 16: Other information****Other information**

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

\* indicates text in the SDS which has changed since the last revision.

**Phrases used in s.2 and s.3:** EUH210: Safety data sheet available on request.

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

R14: Reacts violently with water.

R22: Harmful if swallowed.

R34: Causes burns.

**Legend to abbreviations:** PNEC = predicted no effect level

DNEL = derived no effect level

LD50 = median lethal dose

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LC50 = median lethal concentration

EC50 = median effective concentration

IC50 = median inhibitory concentration

dw = dry weight

bw = body weight

cc = closed cup

oc = open cup

MUS = mouse

GPG = guinea pig

RBT = rabbit

HAM = hamster

HMN = human

MAM = mammal

PGN = pigeon

IVN = intravenous

SCU = subcutaneous

SKN = skin

DRM = dermal

OCC = ocular/corneal

PCP = physico-chemical properties

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.