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: Zweygart Fachhandelsgruppe GmbH & 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@zweygart.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

<table>
<thead>
<tr>
<th>EINECS</th>
<th>CAS</th>
<th>CHIP Classification</th>
<th>CLP Classification</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>241-677-4</td>
<td>17689-77-9</td>
<td>-: R14; Xn: R22; C: R34</td>
<td>Acute Tox. 4: H302; Skin Corr. 1B: H314; Eye Dam. 1: H318</td>
<td>3-4%</td>
</tr>
</tbody>
</table>

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...]
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.

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**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.

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**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.

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**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.

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**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.

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**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 10-6 m²/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.

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**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


10.5. Incompatible materials


10.6. Hazardous decomposition products


Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

TRIACETOXYETHYLSILAN

<table>
<thead>
<tr>
<th>Route</th>
<th>LD50</th>
<th>mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORAL</td>
<td>380</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Organism</th>
<th>EC50</th>
<th>mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daphnia magna</td>
<td>48H</td>
<td>62</td>
</tr>
<tr>
<td>FISCH</td>
<td>96H</td>
<td>251</td>
</tr>
<tr>
<td>Selenastrum capricornutum</td>
<td>72H</td>
<td>73</td>
</tr>
</tbody>
</table>

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.

[cont...]
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:** 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
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 = phycico-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.