

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

- **1.1 Product identifier**
- **Trade name:** VESTEROL GEL 280S
- **Article number:** 50173 B
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture**
Single-component, silane-based waterproofing gel for all absorbent, mineral substrates
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Heinrich Hahne GmbH & Co. KG
Heinrich-Hahne-Weg 11
45711 Datteln Tel.: 02363/5663-0
- **Further information obtainable from:**
Abteilung: Produktsicherheit
Tel.: 02363 5663-0
Email: info@hahne-bautenschutz.de
- **1.4 Emergency telephone number:**
Gif tinformati onszentrum Nord (GIZ Nord) Universität Göttingen,
Tel.: 0551-19240

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The product is not classified according to the CLP regulation.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
- **Information concerning particular hazards for human and environment:**
Contains mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.
Safety data sheet available on request.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Additional information:**
Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1). May produce an allergic reaction.
Safety data sheet available on request.
- **2.3 Other hazards** By inhalation of aerosol mist health can result.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

Trade name: VESTEROL GEL 280S

(Contd. of page 1)

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Preparation based on alkoxyasilane, siloxane and water.

- **Dangerous components:**

| | | |
|--------------------------------------|---|--------|
| CAS: 2943-75-1 EINECS: 220-941-2 | triethoxyoctylsilane ☒ Xi R36/38 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319 | < 15% |
| CAS: 64742-88-7 EINECS: 265-191-7 | Solvent naphtha (petroleum), medium aliph. ☒ Xn R65 ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304 | 25-50% |

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:** Remove to fresh air.
- **After skin contact:** Consult a persistent skin irritation persists.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
Carbon dioxide, foam, dry powder or water. Fire exposed containers may be cooled with water spray.
- **5.2 Special hazards arising from the substance or mixture**
Hazardous decomposition products: alcohols.
Hazardous combustion products: nitrous gases.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear of A self-contained breathing apparatus and protective clothing. Containers with water spray, even after the fire is out. Evacuate or isolate the area and lay down. The local emergency plan should be noted.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear proper protective equipment.
- **6.2 Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Collect larger amounts of discontinued products in a pan.
The spilled product produces an extremely slippery surface.
Remove sources of ignition.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

(Contd. on page 3)

Trade name: VESTEROL GEL 280S

See Section 13 for disposal information.

(Contd. of page 2)

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Avoid eye and skin contact.
- **Information about fire - and explosion protection:** Vapours may form explosive mixture with air.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Keep cool and dry.
Keep away from heat and direct sunlight.
Protect from frost.
- **Information about storage in one common storage facility:** Do not store together with oxidizing agents.
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

· 8.1 Control parameters

- **Ingredients with limit values that require monitoring at the workplace:**

| | |
|---|------------------------------------|
| 2943-75-1 triethoxyoctylsilane (10-25%) | |
| Technical Rule 900 MAK | 1000 ppm as ethanol |
| 64742-88-7 Solvent naphtha (petroleum), medium aliph. (25-50%) | |
| MAK | 1000 mg / m ³ ; 200 ppm |

- **Additional information:** The lists valid during the making were used as basis.

· 8.2 Exposure controls

· **Personal protective equipment:**

· **General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.

· **Respiratory protection:**

- Case of aerosol and mist may be generated wear a respirator.
- If the product is used in large quantities, confined spaces or other circumstances where one approaches the limits or these are exceeded, appropriate respiratory protection should be worn.
- Recommended Filter type: AX

· **Protection of hands:**

- Protective gloves
- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **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.
- Solvent resistant protective gloves made as Nitrile and Viton I (Fa. KCL) with permeation > 480 min. (Level 6)

· **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.

(Contd. on page 4)

Trade name: VESTEROL GEL 280S

(Contd. of page 3)

- **Eye protection:** Tightly sealed goggles
- **Body protection:** Impermeable protective clothes wear.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form: viscous liquid

Colour: white

· Odour: weak, characteristic

· Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: > 100 °C

· Flash point: 75 °C

· Ignition temperature: 375 °C

· Self-igniting: Product is not selfigniting.

· Danger of explosion: Vapors may form an explosive mixture with air.

· Explosion limits:

Lower: 0.6 Vol %

Upper: 7.0 Vol %

· Vapour pressure: Not determined.

· Density at 20 °C: 0.85 g/cm³

· Solubility in / Miscibility with water:

Not miscible or difficult to mix.

· Viscosity:

Dynamic at 25 °C: > 5000 mPas

· 9.2 Other information: No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity

· 10.2 Chemical stability

· 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: Strong oxidizing agents.

· 10.5 Incompatible materials:

This product hydrolyses in water or moist air, releasing alcohols and organosilicon compounds.

· 10.6 Hazardous decomposition products: Above 150 °C and traces of formaldehyde can be released.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity:

· Primary irritant effect:

· on the skin: Degreasing to skin effect, repeated exposure may cause skin dryness or cracking.

· on the eye: causes mild irritation.

· Sensitisation: No sensitising effects known.

(Contd. on page 5)

Trade name: VESTEROL GEL 280S

(Contd. of page 4)

- **Other information (about experimental toxicology):** May cause fatigue.
- **Additional toxicological information:**
Classification based on the components: Harmful: may cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking.
Hydrolysis: Ethanol acts according to the literature irritating to mucous membranes, slightly irritating to the skin, hautetfettend, narcotic, may cause liver damage.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **Other information:**
The organic ingredients in this product are biodegradable, but not classified as readily biodegradable. Siloxanes are removed from water by sedimentation or adsorption on sludge particles. This product hydrolyses in water or moist air, releasing alcohols and organosilicon compounds. Siloxanes are degraded in soil.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:**
There are no expected adverse effects on bacteria. The siloxanes in this product do not contribute to the BOD.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

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.

· **European waste catalogue**

| | |
|-----------|--|
| 08 04 09* | waste adhesives and sealants containing organic solvents or other dangerous substances |
|-----------|--|

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|--|-----------------|
| · 14.1 UN-Number | - |
| · 14.2 UN proper shipping name | - |
| · 14.3 Transport hazard class(es) | - |
| · 14.4 Packing group | - |
| · 14.5 Environmental hazards: | Not applicable. |

(Contd. on page 6)

Trade name: VESTEROL GEL 280S

(Contd. of page 5)

- | | |
|---|--|
| · 14.6 Special precautions for user | <i>Not applicable.</i> |
| · 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | <i>Not applicable.</i> |
| · Transport/Additional information: | <i>Not hazardous under transport regulations</i> |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations:**
- **Waterhazard class:** *Water hazard class 1 (Self-assessment): slightly hazardous for water.*
- **15.2 Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

- H226 Flammable liquid and vapour.*
- H304 May be fatal if swallowed and enters airways.*
- H315 Causes skin irritation.*
- H319 Causes serious eye irritation.*

R36/38 Irritating to eyes and skin.

R65 Harmful: may cause lung damage if swallowed.

- **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)

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)

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Asp. Tox. 1: Aspiration hazard, Hazard Category 1