



SAFETY DATA SHEET

PRODUCT:

SILIC8 PS2

1. Identification of the substance/preparation and of the company/undertaking

Silic8 Vapour Open Products:

Adhesives, primers and fillers for various uses

Technical and Emergency help please contact the following:-

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Product: High strength penetrating solution and consolidating primer for dilution and use with other products in the Silic8 range in accordance with specification.

Product Name: *Silic8 PS2 Penetrating Solution*

2. Hazards Identification

- **Hazard description:** Alkaline, but observe general safety regulations.
- Information concerning particular hazards for human and environment:

Xi Irritant

R36/38 Irritating to eyes and skin

R 52/53 Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

- Classification system:

The classification is according to the latest editions of the EU lists and extended by literature data.

3. Composition/information of ingredients

- Chemical characterisation

- **Description:** Silicic acid, potassium salt, water

CAS: 1312-76-1 EC No: 215-199-1	Potassium silicate	Xi:R36/37 /38	20-50%
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- Additional information: For the wording of the listed risk phrases please refer to section 16.

4. First aid measures

- **General Information:** In the event of an accident seek medical advice and take this safety data sheet.
- **After inhalation:** Supply fresh air and consult a Doctor if breathing is impaired.
- **After skin contact:** Wash off immediately with soap and water and rinse thoroughly. If irritation continues seek medical advice.
- **After swallowing:** Rinse throat and mouth with water. Drink 300ml of water. Don't induce vomiting and seek medical advice.
- **After eye contact:** Rinse opened eye for at least 15 minutes under running water and seek immediate medical attention.

5. Fire-fighting measures

- Suitable extinguishing agents:
CO₂, powder or water spray. Extinguish larger fires with water spray or alcohol resistant foam. The product does not burn.
Implement fire-fighting measures to the fire surroundings.
- Special hazards caused by the substance, its products of combustion or resulting gases:
- **Protective equipment:** Wear self-contained respiratory protective equipment.
- Additional information:
In case of fire do not breathe smoke, flumes and vapours. Fire debris and contaminated fire fighting water must be disposed of in accordance with regulations.
Non-combustible

6. Accidental release measures

- Personal safety precautions:
Adhere to the personal protection rules (Refer to sections 7 and 8).
Avoid contact with eyes and skin.
Avoid persons slipping on leaked/spilled product.
- Measure for environmental protection:

Don't allow product to enter soil, sewage system or any ground water course.

Adhere to local governmental rules and regulations.

In the case of ground contamination inform the relevant authorities immediately.

- Measures for cleaning/collecting:
Plug drainage courses (blocking risk due to polymer precipitation).
Absorb with liquid-binding material (Sand, diatomite, acid binders, universal binders, sawdust).
Flush residues with plenty of water.
Dispose of the residue materials according to the regulations.
Thoroughly clear contamination.

7. Handling and Storage

- Handling: Information for safe handling:
Prevent formation of aerosols.
Keep receptacles tightly sealed.
Ensure good ventilation/extraction in the workplace.
See item 8 for information about suitable protective equipment and technical precautions.
Observe the protection rules.
- Information about fire and explosion protection: No special measures required.
- Storage: Requirements to be met by storerooms and receptacles:
Unsuitable material for receptacles and pipes: Ferrous metals
Suitable material for receptacles and pipes: Polyethylene.
- Information about storage in one common storage facility: Do not store in the same place with acids.
- Further information about storage conditions:
Keep container tightly sealed.
Protect from frost.
Protect from heat and direct sunlight.
Store away from metals.
- Storage class: 12

8. Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; refer to item 7.
- Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The valid lists during the making of this product were used as the basis.

Personal protective equipment:

General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing.

Avoid contact with the eyes and skin.

Do not inhale vapours.

Wash hands before breaks and at the end of work.

Respiratory protection: Use suitable respiratory protective device only when vapour or mist is formed.

Combination filter A/P.

Protection of hands: Protective gloves to be worn at all times.

Material of gloves: suitable material to be used eg:

Nitrile impregnated cotton gloves

Chloroprene rubber, CR: Recommended thickness of the material: ≥ 0.5 mm

Natural rubber, NR: Recommended thickness of the material: ≥ 0.6 mm

PVC gloves: Recommended thickness of the material: ≥ 0.7 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and this varies from manufacturer to manufacturer.

Penetration time of glove material: Value of the permeation: ≥ 6 (480 mins)

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

Eye protection: Tightly sealed goggles to be worn at all times.

Body protection: Protective work clothing.

Skin protection: After contact with skin immediately wash thoroughly with water.

9. Physical and chemical properties

▪ General information

Form: Fluid

Colour: Clear

Odour: no odour

▪ Change in condition

Melting point/Melting range: Undetermined

Boiling point/Boiling range: 100 deg. C

▪ Flash point:

Non-combustible

▪ Self-igniting:	Not self-igniting
▪ Danger of explosion:	No explosion hazard
▪ Explosion limits:	Non-combustible
▪ Oxidizing properties:	Not applicable
▪ Vapour pressure:	Not determined
▪ Density at 20°C:	Not determined
▪ Vapour density:	Not applicable
▪ Evaporation rate:	Not applicable
▪ Solubility in / Miscibility with water:	Soluble, Miscibility carrier
▪ pH – value at 20°C:	11
▪ Segregation coefficient (n-octanol/water):	Not applicable
▪ Viscosity:Dynamic at 20°C:	Not determined

10. Stability and reactivity

- Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.
- Materials to be avoided:
Acids ; Metals ; Glass
- Dangerous decomposition products: Non-hazardous decomposition if stored and handled as advised.

11. Toxicological information

- Acute toxicity:
- LD/LC50-0 Terbutryn

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rat)
Inhalative	LC50	>2.06 mg/l (rat)
- Primary irritant effect:
- **On the skin:** Frequent persistent contact with the skin may cause a skin irritation.
- **On the eye:** In case of longer exposure, irritating effects are possible.
- **During swallowing:** Irritant effect is possible.
- Sensitization: Not sensitising
- Other information (about experimental toxicology):
Experimental analysis is not available.
- Additional toxicological information:
From our observations and when used according to the guidance the product appears to have no harmful effects according to the external information provided to us.

12. Ecological information

- Ecotoxicological effects:
- Aquatic toxicity:
Harmful to aquatic organisms.
May cause long-term adverse effects in the aquatic environment.
- Additional ecological information:
- AOX – indication:
The product may constitute some small influential changes in the measurement of the AOX-load of the waste water.
- General notes:
The product may not be released into the environment without control.
Due to the alkalinity there will be local effects on ecosystems sensitive to changes in pH
At present there are no ecotoxicological assessments.
Water hazard class 2 (EU Regulation) (Self-assessment): hazardous for water.

13. Disposal considerations

- Product:
- Recommendation Disposal must be made according to official regulations.
- European waste catalogue
08 01 11 waste paint and varnish containing organic solvents or other dangerous substances.
- Uncleaned packaging:
- **Recommendation:** Disposal must be made according to official regulations.

14. Transportation information

- Land transport ADR/RID (cross-border)
- ADR/RID class:
- Maritime transport IMDG:
- IMDG Class:
- Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class:
- Transport/Additional information:
No dangerous/hazardous goods in relation to these transport regulations.
Do not transport in aluminium.

15. Regulatory information

- Labelling according to EU guidelines:
The product has been classified and marked in accordance with EU Directives/Ordinance on Hazardous Materials.

- Risk phrases:
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Safety phrases:
S1/2 Keep out of reach of children
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S24/25 Avoid contact with skin and eyes
S36 Wear suitable protective clothing
S61 Avoid release to the environment. Refer to special instructions and safety data sheets.
- Special labelling of certain preparations:



Xi irritant.

May produce an allergic reaction.

16. Other information

This information is given to the best of our knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. This document does not dispense the user from knowing and applying all rules and practices related to his activity and must not be considered exhaustive. It does not exonerate the user from other obligations to be respected, supplementary or prescribed, outside the content of this document for which he remains solely responsible.

- Relevant R-phrases
R22 Harmful if swallowed.
R36/37/38 Irritant for the eyes, respiratory ways and the skin
R43 May cause sensitisation by skin contact.
R50/53 Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.