

Safety Data Sheet according to Regulation (EC) No 1907/2006

VERSIL SIL-DEN

Revision date: 21.08.2013

Revision No: 2,00

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

**1.1. Product identifier**

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

Use of the substance/mixture

Concrete sealer

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



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Scheda di Sicurezza provvisoria - Provisional Safety Data Sheet

**1.4. Emergency telephone number:**

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

Indications of danger: Xi - Irritant

R phrases:

Irritating to skin.

Risk of serious damage to eyes.

**GHS classification**

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

Causes skin irritation.

Causes serious eye damage.

**2.2. Label elements**

Pictograms:

GHS05



Signal word:

Danger

Hazardous components which must be listed on the label

Potassium methylsilanetriolate

**Hazard statements**

H315 Causes skin irritation.

H318 Causes serious eye damage.

**Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

### **2.3. Other hazards**

High risk of slipping due to leakage/spillage of product.

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

### **3.2. Mixtures**

#### **Chemical characterization**

Aqueous preparation of the following substances with non-hazardous admixtures

#### **Hazardous components**

Component	CAS #	EINECS No	% by weight	REACH Reg. #
Lithium Silicate	12627-14-4	235-730-0	10-50	Yes
Silane	Prop.	Prop.	1-10	
Water	7732-18-5	231-791-2	Balance	No

Note. REACH Reg. # is the combination of the EINECS # and CAS #. The REACH Reg. # for lithium silicate is 235730012627144.

## **SECTION 4: First aid measures**

### **4.1. Description of first aid measures**

#### **General information**

Remove contaminated soaked clothing immediately.

If you feel unwell, seek medical advice.

No specific precautions required.

#### **After inhalation**

Take affected person into fresh air.

Wash mouth and nasal passages with water.

If symptoms develop, seek medical attention.

#### **After contact with skin**

In case of contact with skin wash off with soap and water.

Consult a doctor if skin irritation persists.

#### **After contact with eyes**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lens.

Seek medical treatment by eye specialist.

#### **After ingestion**

Do not induce vomiting.

Rinse out mouth and give plenty of water to drink.

Never give anything by mouth to an unconscious person.

Call a physician immediately.

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

Causes serious eye damage.

Causes skin irritation.

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

Treat symptoms.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

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#### **Suitable extinguishing media**

Product does not burn, fire-extinguishing activities according to surrounding.  
Foam, carbon dioxide (CO<sub>2</sub>), dry chemical, water-spray.

#### **Extinguishing media which must not be used for safety reasons**

Full water jet.

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

Fire may produce:

Hydrocarbons., Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>).

Irritant/corrosive, flammable as well as toxic distillation gases/vapours.

#### **5.3. Advice for firefighters**

Use breathing apparatus with independent air supply.

Protective suit.

#### **Additional information**

Cool containers at risk with water spray jet.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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### **SECTION 6: Accidental release measures**

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

Avoid contact with skin, eyes and clothing.

Use personal protective clothing.

High risk of slipping due to leakage/spillage of product.

#### **6.2. Environmental precautions**

Do not discharge into the drains/surface waters/ground water.

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

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Shovel into suitable container for disposal.

#### **6.4. Reference to other sections**

Observe protective instructions (see Sections 7 and 8).

Information for disposal see section 13.

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### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

##### **Advice on safe handling**

Avoid contact with the skin and the eyes.

Ensure adequate ventilation.

##### **Advice on protection against fire and explosion**

No special protective measures against fire required.

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

##### **Requirements for storage rooms and vessels**

Keep container tightly closed in a dry, cool and well-ventilated place.

Keep away from heat.

Keep from freezing.

##### **Advice on storage compatibility**

Incompatible with strong acids and oxidizing agents.

##### **Further information on storage conditions**

Keep away from food, drink and animal feeding stuffs.

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

Concrete sealer

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

#### **8.1. Control parameters**

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## **8.2. Exposure controls**

### **Protective and hygiene measures**

Wash hands before breaks and at the end of workday.

Take off immediately all contaminated clothing.

### **Respiratory protection**

No personal respiratory protective equipment normally required.

### **Hand protection**

Neoprene, butyl or nitrile rubber gloves

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

### **Eye protection**

Tightly fitting goggles (EN 166).

Eye wash bottle with pure water (EN 15154).

### **Skin protection**

Long sleeved clothing (EN 368).

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## **SECTION 9: Physical and chemical properties**

### **9.1. Information on basic physical and chemical properties**

Physical state:	Liquid
Colour:	Colourless
Odour:	Odourless

	Test method
pH-Value (at 20 °C):	approx. 11
<b>Changes in the physical state</b>	
Melting point:	approx. 0 °C
Boiling point:	approx. 100 °C
Flash point:	n.a.
Lower explosion limits:	n.a.
Upper explosion limits:	
Ignition temperature:	n.a.
Vapour pressure:	approx. 22 hPa
(at 20 °C)	
Density (at 20 °C):	1,106 g/cm³
Water solubility:	> 95 % g/L
(at 20 °C)	

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## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

No decomposition if stored and applied as directed.

### **10.2. Chemical stability**

Stable under normal conditions.

### **10.3. Possibility of hazardous reactions**

Reactions with oxidizing agents.

Strong exothermic reaction with acids.

### **10.4. Conditions to avoid**

To avoid thermal decomposition, do not overheat.

### **10.5. Incompatible materials**

Strong acids and oxidizing agents.

### **10.6. Hazardous decomposition products**

Fire may produce:

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Hydrocarbons , Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>).  
Irritant/corrosive, flammable as well as toxic distillation gases (carbonization gases).

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## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Acute toxicity**

No toxicological data available.

#### **Irritation and corrosivity**

Skin irritation: Irritant

Eye irritation: Causes serious eye damage.

#### **Sensitising effects**

Not classified.

#### **Severe effects after repeated or prolonged exposure**

STOT/Single exposure: Not classified.

STOT/Repeated exposure: Not classified.

Aspiration hazard: Not classified.

#### **Carcinogenic/mutagenic/toxic effects for reproduction**

Carcinogenicity: Not classified.

Mutagenicity: Not classified.

Reproductive toxicity: Not classified.

#### **Additional information on tests**

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

#### **Empirical data on effects on humans**

Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.

#### **Further information**

If appropriately handled and if in accordance with the general hygienic rules, no damages to health have become known.

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## **SECTION 12: Ecological information**

### **12.1. Toxicity**

Ecological data are not available.

### **12.2. Persistence and degradability**

No data available.

### **12.3. Bioaccumulative potential**

No data available.

### **12.4. Mobility in soil**

No data available.

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

No data available.

### **12.6. Other adverse effects**

A pH-change becomes possible in water.

#### **Further information**

Do not flush into surface water or sanitary sewer system.

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## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

#### **Advice on disposal**

Can be landfilled after chemical and physical treatment, when in compliance with local regulations.

Where possible recycling is preferred to disposal.

**Waste disposal number of waste from residues/unused products**

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080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other dangerous substances  
Classified as hazardous waste.

**Contaminated packaging**

Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

**SECTION 14: Transport information**

**Other applicable information**

No hazardous material as defined by the transport regulations.

**SECTION 15: Regulatory information**

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

**EU regulatory information**

1999/13/EC (VOC): 0 %

**National regulatory information**

Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

**SECTION 16: Other information**

**Changes**

Changes in chapter: 2, 3, 4, 11

**Abbreviations and acronyms**

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

IMDG = International Maritime Code for Dangerous Goods

IATA/ICAO = International Air Transport Association / International Civil Aviation Organization

MARPOL = International Convention for the Prevention of Pollution from Ships

IBC = Code International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals

CAS = Chemical Abstract Service

EN = European norm

ISO = International Organization for Standardization

VOC = Volatile organic compound

STOT SE = Specific target organ toxicity single exposure

STOT RE = Specific target organ toxicity repeated exposure

PBT = Persistent Bioaccumulative and Toxic

vPvB = Very Persistent and very Bio-accumulative

bw = body weight

LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

**Full text of R phrases referred to under Sections 2 and 3**

35 Causes severe burns.

37 Irritating to respiratory system.

38 Irritating to skin.

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41 Risk of serious damage to eyes.

**Full text of H statements referred to under Sections 2 and 3**

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

**Further Information**

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*