

## Material Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 13.12.2010

Revision: 14.04.2010

### 1 Identification of substance

- **Product details**
- **Trade name** Concrete and Screed Strengthener
- **Article number:** 1290
- **Application of the substance / the preparation** Floor screed admixture
- **Manufacturer/Supplier:**  
Remmers Baustofftechnik GmbH  
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D-49624 Lönningen / Germany  
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- **Informing department:**  
Product Safety department: Tel.: +49 (0)5432/83-138/-538  
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### 2 Hazards identification

- **Hazard designation:**



Xi Irritant

- **Information pertaining to particular dangers for man and environment**  
R 36 Irritating to eyes.
- **Classification system**  
The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

### 3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Silicate solution

- **Dangerous components:**

1312-76-1	Silicic acid, potassium salt	Xi; R 36/38	2.5-5%
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- **Additional information** For the wording of the listed risk phrases refer to section 16.

### 4 First aid measures

- **After inhalation** Seek medical treatment in case of complaints.
- **After skin contact**  
Wash off immediately with water.  
If skin irritation continues, consult a doctor.
- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.

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- **After swallowing**  
Rinse out mouth and then drink plenty of water.  
Seek medical treatment.

## 5 Fire fighting measures

- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
- **Protective equipment:** No special measures required.

## 6 Accidental release measures

- **Person-related safety precautions:**  
Particular danger of slipping on leaked/spilled product.  
Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**  
Do not allow product to reach sewage system or water bodies.  
Do not allow to enter the ground/soil.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of the material collected according to regulations.  
Rinse off spills or splashes material immediately with plenty of warm water.

## 7 Handling and storage

- **Handling**
- **Information for safe handling:**  
Work with alkali resistant tools/equipment.  
Avoid contact with skin and eyes.
- **Information about protection against explosions and fires:** No special requirements.
- **Storage**
- **Requirements to be met by storerooms and containers:** Store in alkali resistant containers.
- **Information on storage in a common storage facility:** none
- **Further information about storage conditions:**  
Keep container tightly closed.  
Protect from frost.  
Do not store below -5 °C.

## 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with limit values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during compilation were used as a basis.
- **Personal protective equipment**
- **General protective and hygienic measures**  
Keep away from food, beverages and animal feed.  
Do not eat, drink or smoke while working.  
Immediately remove soiled, saturated clothing.  
Use skin protection cream for preventive skin protection.  
Wash hands before pauses and after work.  
Avoid contact with eyes and skin.
- **Respiratory equipment:** not required.

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- **Protection of hands:** Protective gloves.
- **Material of gloves** Chloroprene rubber, CR
- **Penetration time of glove material**  
Break through time: max. 240 min (DIN EN 374).  
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing.

## 9 Physical and chemical properties:

### · General Information

<b>Form:</b>	Fluid
<b>Colour:</b>	clear
<b>Odour:</b>	Odourless

### · Change in condition

<b>Melting point/Melting range:</b>	Not determined
<b>Boiling point/Boiling range:</b>	Not determined

· **Flash point:** Not applicable

· **Ignition temperature:** not applicable

· **Self-inflammability:** Product is not self-igniting.

· **Danger of explosion:** Product is not explosive.

· **Vapour pressure at 20°C:** 23 mbar

· **Density at 20°C** ca. 1.15 g/cm<sup>3</sup>

### · Solubility in / Miscibility with

**Water:** Fully miscible

· **pH-value at 20°C:** ca. 11.5

### · Viscosity:

**kinematic at 20°C:** 12 s (DIN 53211/4)

## 10 Stability and reactivity

### · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

### · Materials to be avoided:

Acids

Ammonium salts

### · Dangerous reactions

Exothermic reaction with acids

Because of alkalinity, reactions with metals (e.g. zinc and aluminium) producing heat and hydrogen are possible.

· **Dangerous decomposition products:** No dangerous decomposition products known

## 11 Toxicological information

### · Acute toxicity:

### · Primary irritant effect:

· **on the skin:** May cause irritation.

· **on the eye:** Irritating effect.

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- **Sensitisation:** No sensitising effect known.
- **Additional toxicological information:**  
The product is not subject to labelling based on the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version.  
When used and handled according to directions, the product does not have any harmful effects according to our experience and the information available.

## 12 Ecological information:

- **Ecotoxicological effects:**
- **Remark:**  
When leading acidic or alkaline products into sewage facilities, make sure that the discharged water does not exceed or fall below a pH range of 6 - 10 since shifts in pH value can cause disturbances in sewers and biological purification facilities. The local guidelines for discharge apply.
- **General notes:**  
Water hazard class 1 : slightly hazardous to water.  
Do not allow product to reach ground water, bodies of water or sewage system.

## 13 Notes on disposal:

- **Product:**
- **Recommendation**  
Do not dispose of together with household garbage. Do not allow product to reach sewage system.  
The given refuse codes are recommendations based upon the intended use of the product. Because of special use and disposal conditions at the user's, other codes may apply under other conditions.

- **European waste catalogue**

20 01 15	alkalines L 47/30 16.2.2001 Official Journal of the European Communities EN
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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

## 14 Transport information

- **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**
- **ADR/RID-GGVS/E Class:** -

- **Maritime transport IMDG/GGVSea:**
- **IMDG/GGVSea Class:** -

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

- **Transport/Additional information:** Not a hazardous good according to the above regulations.

## 15 Regulatory information

- **Designation according to EC guidelines:**  
Observe normal safety precautions for handling chemicals  
The product has been classified and labelled in accordance with EC Guidelines / Ordinance on Hazardous Materials (GefStoffV)

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**· Code letter and hazard designation of product:**

Xi Irritant

**· Risk phrases:**

36 Irritating to eyes.

**· Safety phrases:**

2 Keep out of the reach of children.

25 Avoid contact with eyes.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

46 If swallowed, seek medical advice immediately and show this container or label.

**· National regulations****· Water hazard class:** Water hazard class 1: slightly hazardous to water.**· Other regulations, limitations and prohibition ordinances**

Because of the products' alkaline properties, always observe the necessary protective measures and follow the instructions for use.

Observe the usual protective measures when working and for storage.

**16 Other information:**

This data is based on our present state of knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally valid contractual relationship. Delivery specifications are found in the respective Technical Information Sheets.

**· Relevant R-phrases**

36/38 Irritating to eyes and skin.

**· Department issuing data specification sheet:** Product Safety department