

Material Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 08.08.2007

Revision: 07.12.2006

1 Identification of substance

- **Product details**
- **Trade name** **Silicate Paint D**
Funcosil D Silicate Paint
- **Article number:** 0630,0632,0634
- **Application of the substance / the preparation** Priming
- **Manufacturer/Supplier:**
Remmers Baustofftechnik GmbH
Postfach 1255
D-49624 Lönningen / Germany
Tel.: 05432/83-0
Fax: 05432/3985
- **Informing department:**
Product Safety department: Tel.: +49 (0)5432/83-138/-538
E-Mail: sales@remmers.co.uk
- **Emergency information:**
during working hours:
U.K.: Tel.: +44 (0) 845 373 0103
Far East: Tel.: +65(0) 67410277
Head Office Germany: Tel.: +49 (0)5432 83 185
after working hours: Tel.: +49 (0)171/6428-297

2 Hazards identification

- **Hazard designation:** not applicable
- **Information pertaining to particular dangers for man and environment** not applicable
- **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:** organo-silicate paint

- **Dangerous components:**

| | | | |
|--------------------------------------|---|----------------|---------|
| CAS: 1312-76-1 | Alkalisilikat | Xi; R 37/38-41 | 2.5-<5% |
| CAS: 64742-48-9 EINECS: 265-150-3 | Naphtha (petroleum), hydrotreated heavy | Xn; R 65 | 1-<2.5% |

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

4 First aid measures

- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact**
Wash immediately with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact**
Rinse opened eye for several minutes under running water.
Call a doctor immediately.

(Contd. on page 2)

Material Safety Data Sheet

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Trade name **Silicate Paint D**
Funcosil D Silicate Paint

(Contd. of page 1)

- **After swallowing**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.
- **Information for doctor**
- **Danger** Long-term or repeated exposure may cause inflammation of the skin (dermatitis).
- **Treatment** To avoid dermatitis (skin inflammation), use skin cream.

5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
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.
Ensure adequate ventilation
Keep away from ignition sources
- **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 contaminated material as waste according to item 13.
Ensure adequate ventilation.

7 Handling and storage

- **Handling**
- **Information for safe handling:**
Avoid contact with skin and eyes.
Work with alkali resistant tools/equipment.
- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.
- **Storage**
- **Requirements to be met by storerooms and containers:** Store in alkali resistant containers.
- **Information on storage in a common storage facility:**
Suitable material for containers and pipes: Light metals and their alloys.
- **Further information about storage conditions:**
Store cool and dry in tightly closed containers.
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:**

471-34-1 calcium carbonate

| | |
|-----|--|
| OES | Long-term value: 10*4** mg/m ³ *total inhalable dust **respirable dust |
|-----|--|

(Contd. on page 3)

Material Safety Data Sheet

according to 1907/2006/EC, Article 31

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Revision: 07.12.2006

Trade name **Silicate Paint D**
Funcosil D Silicate Paint

(Contd. of page 2)

- **Additional information:** The lists that were valid during compilation were used as a basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
Observe the usual precautionary measures when handling chemicals.
Immediately remove soiled, saturated clothing.
Keep away from food, beverages and animal feed.
Do not eat, drink or smoke while working.
Use skin protection cream for preventive skin protection.
Wash hands before pauses and after work.
Avoid contact with eyes and skin.
- **Respiratory equipment:** Not necessary if room is well-ventilated.
- **Protection of hands:** Rubber gloves
- **Material of gloves:** Rubber gloves
- **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.
- **Eye protection:**
Safety glasses
if there is a risk of splashes
- **Body protection:** Protective work clothing.

9 Physical and chemical properties:

· General Information

| | |
|----------------|-----------------------------|
| Form: | thixotropic |
| Colour: | Different, according to dye |
| Odour: | Type specific |

· Change in condition

Melting point/Melting range: Not determined
Boiling point/Boiling range: Not determined

· **Flash point:** Not applicable

· **Ignition temperature:** Nicht anwendbar

· **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. 1.4 g/cm³

· Solubility in / Miscibility with

Water: miscible

· **pH-value at 20°C:** ≥ 12

· Viscosity:

dynamic at 20°C: ca. 2500 cP

10 Stability and reactivity

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.
No decomposition if handled and stored according to specifications.
Avoid: heat, flames, sparks

(Contd. on page 4)

Material Safety Data Sheet

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Revision: 07.12.2006

Trade name **Silicate Paint D**
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(Contd. of page 3)

- **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:**
 - None if used properly.
 - None if stored properly.

11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

64742-48-9 Naphtha (petroleum), hydrotreated heavy

| | | |
|------------|----------|--------------------------|
| Oral | LD50 | > 2000 mg/kg (Ratte) |
| Dermal | LD50 | > 2000 mg/kg (Kaninchen) |
| Inhalative | LC50/4 h | > 5 mg/l (Ratte) |

- **Primary irritant effect:**

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

- **on the eye:** May cause irritation.

- **Experience with humans:**

Frequent or longer lasting skin contact may degrease and dry out skin which may lead to skin irritation and inflammation (dermatitis).

- **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.

12 Ecological information:

- **General notes:**

Water hazard class 1 : slightly hazardous to water.

Do not allow product to reach ground water, bodies of water or sewage system.
according to appendix 4 VwVwS

13 Notes on disposal:

- **Product:**

- **Recommendation**

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**

| | |
|----------|---|
| 08 00 00 | WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS |
| 08 01 00 | wastes from MFSU and removal of paint and varnish |
| 08 01 12 | waste paint and varnish other than those mentioned in 08 01 11 |

- **Uncleaned packaging:**

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

(Contd. on page 5)

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(Contd. of page 4)

- **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:**

The product is not subject to labelling in accordance with EC Guidelines and the Ordinance on Hazardous Materials (GefStoffV).

Observe normal safety precautions for handling chemicals

- **Product Code:** M-SK 01
- **National regulations**

- **Technical instructions (air):**

| Class | Proportion in % |
|-------|-----------------|
| III | 1-<2,5 |

- **Water hazard class:**

Water hazard class 1: slightly hazardous to water.
according to appendix 4 VwVwS

- **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**

37/38 Irritating to respiratory system and skin.

41 Risk of serious damage to eyes.

65 Harmful: may cause lung damage if swallowed.

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