1 Identification of substance

- **Product details**
- **Trade name** Funcosil FC
  - **Article number:** 0711
  - **Application of the substance / the preparation** Hydrophobing agent/ water repellent
- **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:**
  Xi Irritant
- **Information pertaining to particular dangers for man and environment**
  R 38 Irritating to skin.
- **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:** Siloxane-emulsion
  - **Dangerous components:**
    - 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

- **General information**
  Immediately remove any clothing soiled by the product.
  In case of irregular breathing or respiratory arrest, provide artificial respiration.
Material Safety Data Sheet
according to 1907/2006/EC, Article 31

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Revision: 23.03.2010

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- **After inhalation**
  Take affected persons into the open air and position comfortably.
  Seek medical treatment in case of complaints.

- **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.
  Seek medical treatment.

- **After swallowing**
  Rinse out mouth and then drink plenty of water.
  Call a doctor immediately.
  Keep the person affected quiet.

- **Information for doctor**
  The following symptoms may occur:
  In case of prolonged/repeated exposure or in high concentrations:
  Headache
  Dizziness

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**5 Fire fighting measures**

- **Suitable extinguishing agents**
  Fire-extinguishing powder
  Alcohol-resistant foam
  Carbon dioxide
  Water spray jet

- **Special hazards caused by the material, its products of combustion or flue gases:**
  May be released in case of fire
  Carbon monoxide (CO)

- **Protective equipment:** Wear self-contained breathing apparatus.

- **Additional information**
  Collect contaminated fire fighting water separately. It must not enter drains.
  Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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**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

- **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:**
  Collect mechanically.
  Send for recovery or disposal in suitable containers.
  Ensure adequate ventilation.

- **Additional information:** See Section 13 for information on disposal.

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**7 Handling and storage**

- **Handling**
  **Information for safe handling:** Use only in well ventilated areas.
  **Information about protection against explosions and fires:**
  Fumes can combine with air to form an explosive mixture.

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- **Storage**
- **Requirements to be met by storerooms and containers:** Store in cool location.
- **Information on storage in a common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:**
  - Store cool and dry in tightly closed containers.
  - Store container in a well ventilated position.
  - Protect from frost.
  - Protect from humidity and keep away from water.
  - Protect from heat and direct sunlight.

*8 Exposure controls and personal protection*

- **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.
    - Immediately remove soiled, saturated clothing.
    - 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.
    - Do not inhale gases / vapours / aerosols.
  - **Respiratory equipment:**
    - Respiratory protection if there is a risk of splashes/mist.
    - Short term filter device:
      - Filter A/P2.
  - **Protection of hands:** Protective gloves.
  - **Material of gloves** Nitrile rubber, NBR
  - **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
      - if there is a risk of splashes
  - **Body protection:** Protective work clothing.

*9 Physical and chemical properties:*

- **General Information**
  - **Form:** Pasty
  - **Colour:** milky-cloudy
  - **Odour:** Nearly odourless
- **Change in condition**
  - **Melting point/Melting range:** Not determined
  - **Boiling point/Boiling range:** Not determined
- **Flash point:** > 61°C
- **Self-inflammability:** Product is not self-igniting.
Trade name Funcosil FC

10 Stability and reactivity

- **Danger of explosion:** Product is not explosive. However, formation of dangerous explosive vapour/air mixtures is possible.
- **Density at 20°C** 0.84 g/cm³
- **Solubility in / Miscibility with Water:** miscible
- **Viscosity:**
  - dynamic at 20°C: 3000 - 8000 mPas
- **Solvent content:**
  - Organic solvents: ca. 40 %

11 Toxicological information

- **Acute toxicity:**
  - **LD/LC50 values that are relevant for classification:**
    - **2943-75-1 triethoxyoctylsilane**
      - Oral LD₅₀ > 5110 mg/kg (Ratte)
    - **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.
    - Dries skin out.
  - **on the eye:** No irritating effect.
  - **Sensitisation:** No sensitising effect known.

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.
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**
  - 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 11 waste paint and varnish containing organic solvents or other dangerous substances

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

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 has been classified and labelled in accordance with EC Guidelines / relevant national laws. Observe normal safety precautions for handling chemicals

- **Code letter and hazard designation of product:**
  Xi Irritant

- **Risk phrases:**
  38 Irritating to skin.

- **Safety phrases:**
  2 Keep out of the reach of children.
  24 Avoid contact with skin.
  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. according to appendix 4 VwVwS
Other regulations, limitations and prohibition ordinances
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
  65 Harmful: may cause lung damage if swallowed.
  66 Repeated exposure may cause skin dryness or cracking.

· Department issuing data specification sheet: Product Safety department