

Material Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 28.01.2009

Revision: 21.06.2007

1 Identification of substance

- **Product details**
- Trade name **Betofix R2**
- **Article number:** 1093
- **Application of the substance / the preparation** Repair mortar
- **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
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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.
- **Additional information:** low chromate content according to directive 2003/53 EG

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Inorganic binder combination with fillers and additives and organic additives

- **Dangerous components:**

CAS: 14808-60-7 EINECS: 238-878-4	Quartz (SiO ₂)		40-<60%
CAS: 65997-15-1 EINECS: 266-043-4	Cement	Xi; R 36/38-43	5-<10%
CAS: 7778-18-9 EINECS: 231-900-3	calcium sulphate, natural		2.5-<5%

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

4 First aid measures

- **After inhalation**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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- **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. Then consult doctor.
- **After swallowing** Call a doctor immediately.
- **Information for doctor** see item 3

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:**
Avoid causing dust.
Avoid skin contact. Avoid eye contact.
- **Measures for environmental protection:**
Avoid uncontrolled admittance of water. Avoid uncontrolled runoff after admittance of water. Avoid runoff into sewage system and receiving water.
- **Measures for cleaning/collecting:**
Collect mechanically.
Keep away from water.
- **Additional information:**
Hardens after contact with water. After hardening it can be disposed of as concrete (European waste catalogue: EWC-Code: 170101).

7 Handling and storage

- **Handling**
- **Information for safe handling:**
Avoid the formation of dust.
Protect against moisture. Keep out of reach of children. Avoid skin contact. Avoid eye contact.
- **Information about protection against explosions and fires:** The product is not flammable
- **Storage**
- **Requirements to be met by storerooms and containers:**
Store in closed rooms protected against moisture. Extraction of dust in compliance with BImSchG or Technical Instructions Air.
- **Information on storage in a common storage facility:** none
- **Further information about storage conditions:**
Keep container tightly closed.
Store dry.
Protect from humidity and keep away from water.

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:**

65997-15-1 Cement

WEL	Long-term value: 10* 4** mg/m ³ *inhalable dust **respirable dust
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- **Additional information:** The lists that were valid during compilation were used as a basis.

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- **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 dust / smoke / mist.
Observe Professional Association regulations.
- **Respiratory equipment:**
Short term filter device:
Filter P2.
Code of Practice ZH 1 / 701 Hauptverband der Gewerbl. BG
- **Protection of hands:**
Protective gloves.
Avoid contact with skin. Wear suitable protective gloves.
- **Material of gloves** Nitrile rubber, NBR
- **Penetration time of glove material**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
Break through time: max. 240 min (DIN EN 374).
- **Eye protection:**
Tightly sealed safety glasses.
Code of Practice BGR 192 Hauptverband der Gewerbl. BG: Avoid contact with eyes. In case of eye contact, rinse immediately and thoroughly with water. Seek medical advice.
- **Body protection:** Protective work clothing.

9 Physical and chemical properties:

· General Information

Form:	Powder
Colour:	According to product specification
Odour:	Odourless

· Change in condition

Melting point/Melting range:	> 1000°C
Boiling point/Boiling range:	Not determined

· **Flash point:** Not applicable

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

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

· **Density at 20°C** 1.4 g/cm³

· **Solubility in / Miscibility with Water:** miscible at 1:5

· **pH-value (100 g/l) at 20°C:** ca. 12

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 the entrance of moisture

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- **Dangerous reactions** No dangerous reactions known
- **Dangerous decomposition products:**
None if used properly.
None if stored properly.

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Light irritation of the skin possible in case of repeated exposure.
- **on the eye:** May cause irritation.
- **Experience with humans:** Slightly irritation of skin possible after repeated exposure.

12 Ecological information:

- **Ecotoxicological effects:**
Only possible in case of unintentional release of larger amounts in connection with water through increased pH value.
- **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**
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.
May be used again if taken up in dry. After the addition of water and subsequent hardening, dispose of as concrete.

· European waste catalogue

17 00 00	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 01 00	concrete, bricks, tiles and ceramics
17 01 01	concrete

- **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.

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15 Regulatory information

- **Designation according to EC guidelines:**

Although this product is not subject to labelling, we recommend that the safety suggestions are observed

- **Safety phrases:**

22 Do not breathe dust.

24 Avoid contact with skin.

- **National regulations**

- **Water hazard class:**

Water hazard class 1: slightly hazardous to water.

according to appendix 4 VwVwS

- **Other regulations, limitations and prohibition ordinances**

Corrosive properties are set free when worked with water; therefore experience is expected of the user and our notes on working are to be observed.

Professional Association Principles/Industrial Medicine regulations, e.g. principles of industrial medicine

Occupational Safety Regulations (VBG, ZH-1/Codes of Practice, etc.).

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.

43 May cause sensitisation by skin contact.

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

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