

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 23.11.2016

Version number 3

Revision: 23.11.2016

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

* **1.1 Product identifier**

* **Trade name** **Betofix R4**

* **Article number:** 1096, 1097

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

No further relevant information available.

* **Sector of Use**

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU21 Consumer uses: Private households / general public / consumers

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

* **Product category** PC9b Fillers, putties, plasters, modelling clay

* **Process category**

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC10 Roller application or brushing

* **Environmental release category**

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

ERC8c Widespread use leading to inclusion into/onto article (indoor)

ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

ERC8f Widespread use leading to inclusion into/onto article (outdoor)

ERC10a Widespread use of articles with low release (outdoor)

ERC11a Widespread use of articles with low release (indoor)

* **Application of the substance / the mixture** Ready-mixed mortar

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

* **Manufacturer/Supplier:**

Remmers GmbH

Postfach 1255

D-49624 Lönningen / Germany

Tel.: +49(0)5432/83-0

Fax: +49(0)5432/3985

Remmers (UK) Limited
Unit B1 The Fleming Centre
West Sussex RH10 9NN
fon +44 (0) 1293 594 010
fax +44 (0) 1293 594 037

* **Informing department:**

Product Safety department: Tel.: Steve Dunn Tel.: +44 (0) 1293 594 010

E-Mail: sales@remmers.co.uk

* **1.4 Emergency telephone number:**

during working hours:

U.K.: Tel.: +44 (0) 1293 594 010

sales@remmers.co.uk

Head Office Germany: Tel.: +49 (0)5432 83 187

info@remmers.de

after working hours: Tel.: +49 (0)171 21 34 091

24h-Transport Emergency Contact Phone Number:

within USA and Canada: 1-800-424-9300

outside USA and Canada: 001-703-527-3887

* **SECTION 2: Hazards identification**

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

* **Classification according to Regulation (EC) No 1272/2008**

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

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STOT SE 3 H335 May cause respiratory irritation.

*** 2.2 Label elements***** Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

*** Hazard pictograms**

GHS05 GHS07

*** Signal word** Danger*** Hazard-determining components of labelling:**

Cement

Cement

*** Hazard statements**

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

*** Precautionary statements**

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

P103

Read label before use.

P260

Do not breathe dust.

P280

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

P301+P310

IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

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

P302+P352

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

P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

*** 2.3 Other hazards** low chromate content according to directive 2003/53 EG*** Results of PBT and vPvB assessment***** PBT:** Not applicable.*** vPvB:** Not applicable.*** SECTION 3: Composition/information on ingredients***** 3.2 Chemical characterisation: Mixtures***** Description:** Mixture of the substances listed below with harmless additions.*** Dangerous components:**

CAS: 65997-15-1

Cement

20-40%

EINECS: 266-043-4

Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335

CAS: 68475-76-3

Cement

1-2.5%

EINECS: 270-659-9

Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335

Reg.nr.: 01-2119486767-17-XXXX

*** Additional information** For the wording of the listed hazard phrases refer to section 16.*** SECTION 4: First aid measures***** 4.1 Description of first aid measures***** After inhalation** Seek medical treatment in case of complaints.*** After skin contact**

If skin irritation continues, consult a doctor.

Wash immediately with water and soap and rinse thoroughly.

*** After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.*** After swallowing** Call a doctor immediately.

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

No further relevant information available.

* **Information for doctor** see item 3* **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures* **5.1 Extinguishing media*** **Suitable extinguishing agents** No special measures required.* **5.2 Special hazards arising from the substance or mixture** No further relevant information available.* **5.3 Advice for firefighters*** **Protective equipment:** No special measures required.* **SECTION 6: Accidental release measures*** **6.1 Personal precautions, protective equipment and emergency procedures**

Avoid causing dust.

Avoid skin contact. Avoid eye contact.

Put on breathing apparatus.

Wear protective equipment. Keep unprotected persons away.

* **6.2 Environmental precautions:** No special measures required.* **6.3 Methods and material for containment and cleaning up:**

Keep away from water.

Use neutralising agent.

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

* **6.4 Reference to other sections**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

* **SECTION 7: Handling and storage*** **7.1 Precautions for safe handling**

Thorough removal of dust.

Ensure good ventilation/exhaust in workplaces.

Avoid the formation of dust.

* **Information about protection against explosions and fires:**

No special requirements.

Keep breathing equipment ready.

* **7.2 Conditions for safe storage, including any incompatibilities*** **Storage*** **Requirements to be met by storerooms and containers:** No special requirements.* **Information on storage in a common storage facility:** none* **Further information about storage conditions:**

Store dry.

Protect from humidity and keep away from water.

Keep container tightly closed.

* **7.3 Specific end use(s)** No further relevant information available.* **SECTION 8: Exposure controls/personal protection*** **Additional information about design of technical systems:** No further data; see item 7.* **8.1 Control parameters*** **Components with limit values that require monitoring at the workplace:****CAS: 65997-15-1 Cement**WEL Long-term value: 10* 4** mg/m³

*inhalable dust **respirable dust

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* **Additional information:** The lists that were valid during compilation were used as a basis.

* **8.2 Exposure controls**

* **Personal protective equipment**

* **General protective and hygienic measures**

Do not eat, drink or smoke while working.
 Use skin protection cream for preventive skin protection.
 Observe Professional Association regulations.
 Keep away from food, beverages and animal feed.
 Immediately remove soiled, saturated clothing.
 Wash hands before pauses and after work.
 Avoid contact with eyes and skin.

* **Respiratory equipment:**

Short term filter device:
 Particle-Filter P2.
 In case of brief exposure or low pollution load, use respiratory protection equipment with filter. In case of intensive or longer exposure, use self-contained respiratory protection equipment.

* **Protection of hands:**

Protective gloves.
 The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

* **Material of gloves**

Nitrile rubber, NBR
 The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

* **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:**

Avoid contact with eyes. In case of eye contact, rinse immediately and thoroughly with water. Seek medical advice.
 Tightly sealed safety glasses.

* **Body protection:** Protective work clothing.

* SECTION 9: Physical and chemical properties

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

* **General Information**

* **Appearance:**

Form:	Solid.
Colour:	Grey
* Odour:	Weak, characteristic
* Odour threshold:	Not determined.
* pH-value at 20 °C:	ca. 12

* **Change in condition**

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

* **Flash point:** Not applicable

* **Inflammability (solid, gaseous)** Not determined.

* **Ignition temperature:** not applicable

* **Decomposition temperature:** Not determined.

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

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* Danger of explosion:	Product is not explosive.
* Explosive Limits:	
Lower:	Not determined.
Upper:	Not determined.
* Vapour pressure:	Not applicable.
* Density at 20 °C	> 2 g/cm ³
* Relative density	Not determined.
* Vapour density	Not applicable.
* Evaporation rate	Not applicable.
* Solubility in / Miscibility with Water:	miscible
* Distribution coefficient (n-octanol/water):	Not determined.
* Viscosity:	
dynamic:	Not applicable.
kinematic:	Not applicable.
* 9.2 Other information	No further relevant information available.

* SECTION 10: Stability and reactivity

- * **10.1 Reactivity** No further relevant information available.
- * **10.2 Chemical stability**
- * **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- * **10.3 Possibility of hazardous reactions** No dangerous reactions known
- * **10.4 Conditions to avoid** No further relevant information available.
- * **10.5 Incompatible materials:** No further relevant information available.
- * **10.6 Hazardous decomposition products:** No dangerous decomposition products known

SECTION 11: Toxicological information

- * **11.1 Information on toxicological effects**
- * **Acute toxicity:** Based on available data, the classification criteria are not met.
- * **LD/LC50 values that are relevant for classification:** No further relevant information available.
- * **Primary irritant effect:**
- * **Skin corrosion/irritation**
Causes skin irritation.
- * **Serious eye damage/irritation**
Causes serious eye damage.
- * **Sensitisation:** Based on available data, the classification criteria are not met.
- * **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- * **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- * **Carcinogenicity** Based on available data, the classification criteria are not met.
- * **Reproductive toxicity** Based on available data, the classification criteria are not met.
- * **STOT-single exposure**
May cause respiratory irritation.
- * **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- * **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- * **12.1 Toxicity**
- * **Aquatic toxicity:** No further relevant information available.
- * **12.2 Persistence and degradability** No further relevant information available.
- * **12.3 Bioaccumulative potential** No further relevant information available.
- * **12.4 Mobility in soil** No further relevant information available.

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* **Additional ecological information:*** **General notes:**

Do not allow product to reach ground water, bodies of water or sewage system.
Do not allow undiluted or non-neutralised product to reach the sewage system or receiving waters.
Do not allow undiluted or larger quantities of the product to reach ground water, bodies fo water or sewage system.

* **12.5 Results of PBT and vPvB assessment*** **PBT:** Not applicable.* **vPvB:** Not applicable.* **12.6 Other adverse effects** No further relevant information available.* **SECTION 13: Disposal considerations*** **13.1 Waste treatment methods*** **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**

17 01 01 concrete

* **Uncleaned packaging:*** **Recommendation:** Disposal must be made according to official regulations.* **Recommended cleaning agent:** Water, if necessary with cleaning agent.* **SECTION 14: Transport information*** **14.1 UN-Number*** **ADR, ADN, IMDG, IATA** Void* **14.2 UN proper shipping name*** **ADR, ADN, IMDG, IATA** Void* **14.3 Transport hazard class(es)*** **ADR, ADN, IMDG, IATA*** **Class** Void* **14.4 Packing group*** **ADR, IMDG, IATA** Void* **14.5 Environmental hazards:*** **Marine pollutant:** No* **14.6 Special precautions for user** Not applicable.* **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

* **Transport/Additional information:**

Not a hazardous good according to the above regulations.

* **UN "Model Regulation":**

Void

* **SECTION 15: Regulatory information*** **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture*** **Directive 2012/18/EU*** **Named dangerous substances - ANNEX I** None of the ingredients is listed.* **National regulations*** **Other regulations, limitations and prohibition ordinances**

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

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.

* **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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SECTION 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 phrases

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

* **Department issuing data specification sheet:** Product Safety department / EHS

* Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3