

## SAFETY DATA SHEET RENDEROC HB45

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME                      RENDEROC HB45

SUPPLIER                              Fosroc Limited  
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### 2 HAZARDS IDENTIFICATION

Irritating to respiratory system and skin. Risk of serious damage to eyes.

CLASSIFICATION                      Xi;R37/38, R41.

#### ENVIRONMENT

In the presence of water the product hardens to a solid mass which is not biodegradable.

#### HUMAN HEALTH

Dust or splashes from the mixture may cause permanent eye damage. Dust may irritate throat and respiratory system and cause coughing. Dust has an irritating effect on moist skin. Prolonged contact with wet cement/mixture may cause burns. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
ORDINARY PORTLAND CEMENT	266-043-4	65997-15-1	10-30%	Xi;R37/38,R41. R43.
SILICA SAND (Silicon dioxide)	238-878-4	14808-60-7	10-30%	-
GROUND GRANULATED BLASTFURNACE SLAG (GGBS)		65996-69-2	5-10%	Xi;R36/38.

The Full Text for all R-Phrases are Displayed in Section 16

### 4 FIRST-AID MEASURES

#### INHALATION

Move injured person into fresh air and keep person calm under observation. If uncomfortable: Seek hospital and bring these instructions.

#### INGESTION

Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and take these instructions.

#### SKIN CONTACT

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.

#### EYE CONTACT

Do not rub eye. Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Continue flushing during transport to hospital. Bring these instructions.

### 5 FIRE-FIGHTING MEASURES

#### EXTINGUISHING MEDIA

Use fire-extinguishing media appropriate for surrounding materials.

#### SPECIFIC HAZARDS

Water used for fire extinguishing, which has been in contact with the product, may be corrosive.

**RENDEROC HB45****PROTECTIVE MEASURES IN FIRE**

Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

**6 ACCIDENTAL RELEASE MEASURES****PERSONAL PRECAUTIONS**

Avoid inhalation of dust. Use work methods which minimize dust production. Avoid contact with eyes and prolonged skin contact. For personal protection, see section 8.

**ENVIRONMENTAL PRECAUTIONS**

The product should not be dumped in nature but collected and delivered according to agreement with the local authorities. Do not discharge into drains, water courses or onto the ground.

**SPILL CLEAN UP METHODS**

For waste disposal, see section 13. Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into closed container.

**7 HANDLING AND STORAGE****USAGE PRECAUTIONS**

Observe good industrial hygiene practices. Avoid spread of dust. Avoid inhalation of dust. Avoid contact with eyes and prolonged skin contact. Avoid spread of dust. Mechanical ventilation may be required. Change contaminated clothing.

**STORAGE PRECAUTIONS**

To be stored out of reach of children in its original packaging in a dry place. The product contains less than 2 mg chromate/kg dry cement, and this limit will not be exceeded for 12 months from the packing date stated on the packaging. Seal opened containers and use up as soon as possible

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
CALCIUM SULPHO-ALUMINATE (CSA) CEMENT			10 mg/m <sup>3</sup>			
ORDINARY PORTLAND CEMENT	WEL		4 mg/m <sup>3</sup>			
SILICA SAND (Silicon dioxide)	WEL		0,1 mg/m <sup>3</sup>			

TLV - Threshold Limit Value

WEL = Workplace Exposure Limit.

**INGREDIENT COMMENTS**

WEL = Workplace Exposure Limits

**PROTECTIVE EQUIPMENT****PROCESS CONDITIONS**

This product contains silica sands.

The grain size distribution of silica sand present means that it is not classified as hazardous.

However, any respirable crystalline dust generated by secondary processing may cause health effects.

Prolonged and /or massive inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis.

Principal symptoms of silicosis are cough and breathlessness.

Occupational exposure to respirable crystalline silica dust should be monitored and controlled

**ENGINEERING MEASURES**

Provide adequate ventilation. Observe Workplace Exposure Limits and minimise the risk of inhalation of dust.

**RESPIRATORY EQUIPMENT**

Dust mask/respirator.

Use respiratory equipment with particle filter, type P2.

(EN 149)

**RENDEROC HB45****HAND PROTECTION**

Wear protective gloves. PVC or rubber gloves are recommended. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. If signs of wear and tear are noticed then the gloves should be replaced.

**EYE PROTECTION**

Wear goggles/face shield. (conform EN 166)

**OTHER PROTECTION**

Wear appropriate clothing to prevent any possibility of skin contact.

**HYGIENE MEASURES**

Change contaminated clothing. When using do not eat, drink or smoke.

**PERSONAL PROTECTION**

Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. This product may present a chromate (VI) allergy risk. It contains a chromate reducing agent, but users should wear appropriate personal protective equipment.

**ENVIRONMENTAL EXPOSURE CONTROLS**

Not available

**9 PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	Powder, dust
COLOUR	Grey
ODOUR	Odourless
SOLUBILITY	Miscible with water.

**10 STABILITY AND REACTIVITY****STABILITY**

Stable under normal temperature conditions. When stored under humid conditions, the chromate neutralization will decrease. This product contains a chromate reducing agent to reduce the risk of allergic dermatitis caused by chromium (VI). This product has a shelf life. If not stored in accordance with packaging instructions (sealed and dry), there is an increased risk of the presence of hexavalent chromate leading to an increased risk of an allergic reaction. The product will harden into a hard mass in contact with water and moisture.

**CONDITIONS TO AVOID**

Water, moisture.

**MATERIALS TO AVOID**

Strong acids.

**HAZARDOUS DECOMPOSITION PRODUCTS**

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

**11 TOXICOLOGICAL INFORMATION****INHALATION**

Dust may irritate throat and respiratory system and cause coughing.

**INGESTION**

Not likely, due to the form of the product. Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.

**SKIN CONTACT**

Dust has an irritating effect on moist skin. Prolonged contact with wet cement/mixture may cause burns.

**EYE CONTACT**

Dust or splashes from the mixture may cause permanent eye damage. Immediate first aid is necessary.

**SPECIFIC EFFECTS**

Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

**12 ECOLOGICAL INFORMATION**

**RENDEROC HB45****ECOTOXICITY**

The product is not expected to be hazardous to the environment.

**MOBILITY**

The product is not volatile but may be spread by dust-raising handling.

**DEGRADABILITY**

The product is not biodegradable.

**13 DISPOSAL CONSIDERATIONS****DISPOSAL METHODS**

Dispose of waste and residues in accordance with local authority requirements. Note that fully cured material is not considered as hazardous waste.

**WASTE CLASS**

Waste from residues: 17-09-03

**14 TRANSPORT INFORMATION**

GENERAL	The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).
ROAD TRANSPORT NOTES	Not Classified
RAIL TRANSPORT NOTES	Not Classified.
SEA TRANSPORT NOTES	Not Classified.
AIR TRANSPORT NOTES	Not Classified.

**15 REGULATORY INFORMATION****LABELLING**

Irritant

CONTAINS ORDINARY PORTLAND CEMENT

**RISK PHRASES**

R37/38	Irritating to respiratory system and skin.
R41	Risk of serious damage to eyes.

**STATUTORY INSTRUMENTS**

Chemicals (Hazard Information and Packaging) Regulations.

**APPROVED CODE OF PRACTICE**

Classification and Labelling of Substances and Preparations Dangerous for Supply.

Safety Data Sheets for Substances and Preparations.

**GUIDANCE NOTES**

Workplace Exposure Limits EH40.

CHIP for everyone HSG(108).

**NATIONAL REGULATIONS**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

**16 OTHER INFORMATION****GENERAL INFORMATION**

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

## RENDEROC HB45

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### RISK PHRASES IN FULL

NC	Not classified.
R36/38	Irritating to eyes and skin.
R37/38	Irritating to respiratory system and skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitisation by skin contact.

### DISCLAIMER

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.