

FOSROC

SAFETY DATA SHEET RENDEROC HBS

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

PRODUCT NAME	RENDEROC HBS
APPLICATION	Cement Based Grouts and Repair Mortars
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2 HAZARDS IDENTIFICATION

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

CLASSIFICATION Xi;R37/38, R41.

HUMAN HEALTH

Hexa-valent Chromium level of <2ppm in the wet state is achieved by the addition of a Ferric Sulfate reducing agent. Prolonged contact with wet cement/mixture may cause burns. The grain size distribution of silica sand means it is not hazardous. However, any respirable crystalline silica dust generated by processing and handling of silica sand may cause health effects. Prolonged and/or massive inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis. Occupational exposure to respirable crystalline silica dust should be monitored and controlled.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
CALCIUM SULPHO-ALUMINATE		91053-53-1	1-5%	Xi;R41,R37/38.
PORTLAND CEMENT (ORDINARY)	266-043-4	65997-15-1	30-60%	Xi;R37/38,R41.
SILICA SAND (1MM)			10-30%	-

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

4 FIRST-AID MEASURES

INHALATION

Remove victim immediately from source of exposure. Move into fresh air and keep at rest. Get medical attention.

INGESTION

Rinse mouth thoroughly. DO NOT induce vomiting. Get medical attention immediately.

SKIN CONTACT

Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Get medical attention promptly if symptoms occur after washing.

EYE CONTACT

May cause permanent damage if eye is not immediately irrigated. Get medical attention immediately. Continue to rinse.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

None, not flammable.

SPECIFIC HAZARDS

None.

6 ACCIDENTAL RELEASE MEASURES

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PERSONAL PRECAUTIONS

Risk of contact: Wear protective gloves and goggles/face shield. Avoid contact with skin and eyes.

ENVIRONMENTAL PRECAUTIONS

Prevent entry into drains, sewers and water courses.

SPILL CLEAN UP METHODS

Avoid the creation of dust in the atmosphere. Gather into containers. Residues may be flushed to drain with large volumes of water.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid inhalation of dust and contact with skin and eyes. If ventilation is insufficient, suitable respiratory protection must be provided. Avoid contact with skin and eyes.

STORAGE PRECAUTIONS

Store at moderate temperatures in dry, well ventilated area.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
PORTLAND CEMENT (ORDINARY)			10 mg/m3 total dust		
SILICA SAND (1MM)	MEL		0.3 mg/m3 resp.dust		

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits MEL = Maximum Exposure Limit. OES = Occupational Exposure Standard.

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

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

RESPIRATORY EQUIPMENT

Respiratory protection must be used if air contamination exceeds acceptable level. Use respiratory equipment with particle filter, type P1.

HAND PROTECTION

Wear protective gloves. Gloves of nitrile rubber, PVA or Viton are recommended.

EYE PROTECTION

Use approved safety goggles or face shield.

HYGIENE MEASURES

Wash promptly if skin becomes wet or contaminated. Isolate contaminated clothing and wash before reuse. Promptly remove non-impervious clothing that becomes wet or contaminated.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Granulated powder.		
COLOUR	Grey		
ODOUR	Odourless		
SOLUBILITY	Insoluble		
RELATIVE DENSITY	1.30 (bulk) 20°C	pH-VALUE, DILUTED SOLUTION	>12

10 STABILITY AND REACTIVITY

STABILITY

Stable when stored in a dry place.

CONDITIONS TO AVOID

Water, moisture.

MATERIALS TO AVOID

Avoid contact with acids.

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HAZARDOUS DECOMPOSITION PRODUCTS

None.

11 TOXICOLOGICAL INFORMATION

INHALATION

Dust irritates the respiratory system, and may cause coughing and difficulties in breathing.

INGESTION

May cause chemical burns in mouth, oesophagus and stomach.

SKIN CONTACT

The product contains a small amount of sensitising substance which may provoke an allergic reaction among sensitive individuals after repeated contact.

EYE CONTACT

Risk of serious damage to eyes.

HEALTH WARNINGS

May cause allergic contact eczema. May cause chemical eye burns.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Little danger to the environment.

MOBILITY

The product is insoluble in water and will sediment in water systems.

BIOACCUMULATION

The product is not bioaccumulating.

DEGRADABILITY

The product is not biodegradable.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

GENERAL

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

No transport warning sign required.

MARINE POLLUTANT

No.

15 REGULATORY INFORMATION

LABELLING



Irritant

RISK PHRASES

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

SAFETY PHRASES

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S51 Use only in well-ventilated areas.
 S24/25 Avoid contact with skin and eyes.
 S37/39 Wear suitable gloves and eye/face protection.
 S60 This material and its container must be disposed of as hazardous waste.

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EU DIRECTIVES

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC.

STATUTORY INSTRUMENTS

Control of Substances Hazardous to Health. Chemicals (Hazard Information and Packaging) Regulations.

GUIDANCE NOTES

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

NATIONAL REGULATIONS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689. Workplace Exposure Limits 2005 (EH40)
Control of Substances Hazardous to Health Regulations 2002 (as amended) The Carriage of Dangerous Goods and Use of Transportable
Pressure Equipment Regulations 2007 (CDG 2007)

16 OTHER INFORMATION

REVISION DATE 05/06/2007

REV. NO./REPL. SDS GENERATED 2

DATE 15/09/2008

RISK PHRASES IN FULL

R37/38 Irritating to respiratory system and skin.

R41 Risk of serious damage to eyes.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.