

# SAFETY DATA SHEET RENDEROC PLUG 1

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

## 1.1. Product identifier

Product name RENDEROC PLUG 1

Product No. 2222020UK9

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

<u>Identified uses</u> Cementitious repair compound

#### 1.3. Details of the supplier of the safety data sheet

Supplier FOSROC Limited

**Drayton Manor Business Park** 

Coleshill Road Tamworth Staffordshire B78 3XN

Tel. +44 (0) 1827 262222 Fax. +44 (0) 1827 262444 enquiryuk@fosroc.com

#### 1.4. Emergency telephone number

+44 (0) 1827 265 279 (08.30 to 17.00hrs Mon - Thu; 08.30 to 16.00hrs Fri)

# **SECTION 2: HAZARDS IDENTIFICATION**

## 2.1. Classification of the substance or mixture

<u>Classification (1999/45/EEC)</u> Xi;R37/38, R41. R43.

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.

#### **Environment**

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

#### 2.2. Label elements

Contains ORDINARY PORTLAND CEMENT

Labelling



Irritant

Risk Phrases

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

R43 May cause sensitisation by skin contact.

Safety Phrases

S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

S37/39 Wear suitable gloves and eye/face protection.

S51 Use only in well-ventilated areas.

S60 This material and its container must be disposed of as hazardous waste.

# 2.3. Other hazards

Not Classified as PBT/vPvB by current EU criteria.

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

## 3.2. Mixtures

ORDINARY PORTLAND CEMENT	RDINARY PORTLAND CEMENT			
CAS-No.: 65997-15-1	EC No.: 266-043-4			
Classification (EC 1272/2008) Skin Irrit. 2 - H315		Classification (67/548/EEC) Xi;R37/38,R41.		
Eye Dam. 1 - H318 Skin Sens. 1 - H317 STOT SE 3 - H335		R43.		

HIGH ALUMINA CEMENT (HAC)		
CAS-No.: 65997-16-2	EC No.: 266-045-5	
0/10 No.: 00001 10 E	25 16 255 516 5	
Classification (EC 1272/2008)	Classification (67/548/EEC)	
Not classified.	Not classified.	

SILICA SAND	10-3	30%
CAS-No.: 14808-60-7	EC No.: 238-878-4	
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Not classified.	

CALCIUM HYDROXIDE - HIGH SPECIFICATION			
CAS-No.: 1305-62-0	EC No.: 215-137-3		
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Not classified.		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

# **SECTION 4: FIRST AID MEASURES**

# 4.1. Description of first aid measures

## **General information**

No personal protective equipment is needed for first aid responders. First aid workers should avoid contact with wet cement or wet cement containing perparations.

## <u>Inhalatio</u>n

Move the exposed person to fresh air at once. Dust in throat and nasal passages should clear spontaneously. Get medical attention if irritation persists or later develops, or if discomfort, coughing or other symptoms persist.

#### **Ingestion**

DO NOT INDUCE VOMITING! Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Get medical attention immediately!

#### Skin contact

Wash immediately with copious quantities of water. Remove contaminated clothing immediately. Obtain medical advice if skin orders develop.

#### Eye contact

Do not rub eye. Make sure to remove any contact lenses from the eyes before rinsing. Hold eyelids apart. Rinse the eye with water immediately. Continue to rinse for 30 minutes. Obtain medical attention and bring these instructions.

#### 4.2. Most important symptoms and effects, both acute and delayed

#### **General information**

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

#### Inhalation

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

#### <u>Ingestion</u>

Ingestion of large doses may result in irritation to the gastrointestinal tract.

#### Skin contact

May have an irritating effect on moist skin after prolonged contact, or may cause dermatitis after repeated contact.

Prolonged skin contact with wet preparation may cause serious burns without pain being felt, including through clothing.

#### Eye contact

Eye contact may cause serious and potentially irreversible injuries.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No specific first aid measures noted.

#### **SECTION 5: FIREFIGHTING MEASURES**

## 5.1. Extinguishing media

#### **Extinguishing media**

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

## 5.2. Special hazards arising from the substance or mixture

#### Hazardous combustion products

There are no anticipated hazardous decomposition products associated with this material.

#### **Unusual Fire & Explosion Hazards**

No unusual fire or explosion hazards noted.

#### Specific hazards

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

#### 5.3. Advice for firefighters

#### Special Fire Fighting Procedures

No specific fire fighting procedure given.

#### Protective equipment for fire-fighters

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

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid inhalation of dust. Use work methods which minimize dust production. Avoid contact with eyes and prolonged skin contact. Wear protective clothing as described in Section 8 of this safety data sheet.

# 6.2. 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.

#### 6.3. Methods and material for containment and cleaning up

Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into closed container. Dry material: Collect powder using special dust vacuum cleaner with particle filter. Alternatively, damp powder with fine spray (to avoid dust formation) and remove slurry. Place into container and allow to solidify before disposal as described in section 13. Wet material: Clean up wet material and place in a container. Allow to dry and solidify before disposal as described in section 13.

#### 6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

#### **SECTION 7: HANDLING AND STORAGE**

## 7.1. Precautions for safe handling

Do not eat, drink or smoke when using the product. Avoid spreading dust. Avoid inhalation of dust. Avoid contact with skin and eyes. Mechanical ventilation or local exhaust ventilation may be required. Change contaminated clothing.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry and cool place. Unsuitable containers: aluminium. 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 To be stored out of reach of children in its original packaging in a dry place.

#### 7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
HIGH ALUMINA CEMENT (HAC)	WEL	5 mg/m3 Inhal. Dust	10 mg/m3 total dust			
ORDINARY PORTLAND CEMENT	WEL	milai. Buot	10 mg/m3			
SILICA SAND	WEL		0,1 mg/m3			

WEL = Workplace Exposure Limit.

#### 8.2. Exposure controls

## 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 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**

Atmospheric levels of dust must be maintained within the Occupational Exposure Limit. Where mechanical methods are inadequate or impractical, appropriate personal protective equipment must be used.

## Respiratory equipment

Use respiratory equipment with particle filter, type P2.

# Hand protection

Use impervious, abrasion and alkali resistant gloves. Barrier cream applied before work may make it easier to clean the skin after exposure, but does not prevent absorption through the skin.

#### Eye protection

Wear approved safety goggles. (conform EN 166)

#### **Other Protection**

Use barrier creams to prevent skin contact. Wear appropriate clothing to prevent repeated or prolonged skin contact.

#### 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.

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

## 9.1. Information on basic physical and chemical properties

<u>Appearance</u> Powder, dust

ColourGrey.OdourOdourless.

Solubility Slightly soluble in water. Hardens in contact with water.

#### Initial boiling point and boiling range (°C)

Not applicable.

Melting point (°C) >1250°C

Bulk Density 1.35 kg/l

pH-Value, Conc. Solution >12

#### 9.2. Other information

Not available.

#### **SECTION 10: STABILITY AND REACTIVITY**

#### 10.1. Reactivity

When mixed with water, hardens to form a stable mass that is not reactive in normal conditions.

#### 10.2. Chemical stability

Stable under the prescribed storage 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 causes 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.

#### 10.3. Possibility of hazardous reactions

Not known.

#### **Hazardous Polymerisation**

Will not polymerise.

#### 10.4. Conditions to avoid

Water, moisture.

#### 10.5. Incompatible materials

# Materials To Avoid

Acids Chemically active metals.

#### 10.6. Hazardous decomposition products

No hazardous decomposition products.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

## 11.1. Information on toxicological effects

#### Respiratory or skin sensitisation:

Some individuals may exhibit eczema upon exposure to wet cement caused either by the high pH which induces irritant contact dermatitis, or by an immunological reaction to soluble Cr (VI) which elicits allergic contact dermatitis. If the cement contains a soluble Cr (VI) reducing agent and as long as the mentioned period of effectiveness is not exceeded, a sensitising effect is not expected.

#### Inhalation

Irritating to respiratory system. Inflammation of the nasal mucous membrane by exposure to cement dust.

#### Ingestion

May cause irritation of mouth, throat and digestive tract.

#### Skin contact

Strongly irritating. Prolonged contact may cause burns. May cause sensitisation by skin contact.

#### Eve contact

Irritating and may injure eye tissue if not removed promptly.

#### **Health Warnings**

Repeated and/or prolonged contact may lead to dermatitis

#### **SECTION 12: ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

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

#### 12.1. Toxicity

#### Acute Toxicity - Fish

Not determined.

The product is not expected to be hazardous to the environment. The addition of cements to water will, however, cause the pH to rise and may therefore be toxic to aquatic life in some circumstances.

#### 12.2. Persistence and degradability

# **Degradability**

The product is not biodegradable.

#### 12.3. Bioaccumulative potential

## Bioaccumulative potential

The product is not bioaccumulating.

#### 12.4. Mobility in soil

#### Mobility

The product hardens to a solid immobile substance. The product is not volatile but may be spread by dust-raising handling.

### 12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

## 12.6. Other adverse effects

None known.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

#### **General information**

Do not empty into drains, sewers or water courses. Cement that has exceeded its shelf life: when demonstrated that it contains more than 0.0002% Cr (VI), the product shall not be used other than in controlled closed and totally automated processes. It may be recycled and/or treated again with a reducing agent.

#### 13.1. Waste treatment methods

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

# **SECTION 14: TRANSPORT INFORMATION**

#### General

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

#### 14.1. UN number

Not relevant

#### 14.2. UN proper shipping name

Not relevant

# 14.3. Transport hazard class(es)

Not relevant

## 14.4. Packing group

Not relevant

## 14.5. Environmental hazards

#### **Environmentally Hazardous Substance/Marine Pollutant**

No.

#### 14.6. Special precautions for user

Not relevant

## 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not relevant

## **SECTION 15: REGULATORY INFORMATION**

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

## **Uk Regulatory References**

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.

#### Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

# 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).

#### **EU** Legislation

Dangerous Substance Directive 67/548/EEC.

Dangerous Preparations Directive 1999/45/EC.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

## 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

#### **SECTION 16: OTHER INFORMATION**

# **General information**

Only trained personnel should use this material.

#### **Revision Comments**

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision Date 1 August 2014

Revision 2

Risk Phrases In Full

R37/38 Irritating to respiratory system and skin.
R43 May cause sensitisation by skin contact.

NC Not classified.

R41 Risk of serious damage to eyes.

Hazard Statements In Full

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H335 May cause respiratory irritation.

# 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.



# SAFETY DATA SHEET **RENDEROC PLUG 20**

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

1.1. Product identifier

Product name **RENDEROC PLUG 20** 

Product number 2222036UK9

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

Identified uses Cementitious repair compound

1.3. Details of the supplier of the safety data sheet

Supplier **FOSROC Limited** 

Drayton Manor Business Park

Coleshill Road Tamworth Staffordshire B78 3XN

enquiryuk@fosroc.com Tel. +44 (0) 1827 262222 Fax. +44 (0) 1827 262444

1.4. Emergency telephone number

+44 (0) 1827 265 279 (08.30 to 17.00hrs Mon - Thu; 08.30 to 16.00hrs Fri) **Emergency telephone** 

# SECTION 2: Hazards identification

# 2.1. Classification of the substance or mixture

Classification

Physical hazards Not Classified

Health hazards Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317 STOT SE 3 - H335

**Environmental hazards** Not Classified

Classification (67/548/EEC or Xi;R37/38,R41. R43.

1999/45/EC)

Human health Dust or splashes from the mixture may cause permanent eye damage. Dust may irritate the

> respiratory system. Symptoms following overexposure may include the following: Coughing. Dust has an irritating effect on moist skin. Prolonged contact with moist or wet product may cause burns. Frequent inhalation of dust over a long period of time increases the risk of

developing lung diseases.

**Environmental** The product will harden into a solid mass in contact with water and moisture. The resultant

material is not biodegradable.

2.2. Label elements

## **RENDEROC PLUG 20**

#### **Pictogram**





Signal word Danger

Hazard statements H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory irritation.

**Precautionary statements** P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.
P321 Specific treatment (see medical advice on this label).
P332+P313 If skin irritation occurs: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Contains ORDINARY PORTLAND CEMENT

Supplementary precautionary

statements

P261 Avoid breathing vapour/spray.

P264 Wash contaminated skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor. P312 Call a POISON CENTER/doctor if you feel unwell.

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with national regulations.

## 2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

#### SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

ORDINARY PORTLAND CEMENT 30-60%

CAS number: 65997-15-1 EC number: 266-043-4

Classification Classification (67/548/EEC or 1999/45/EC)

Skin Irrit. 2 - H315 Xi;R37/38,R41. R43. Eve Dam. 1 - H318

Skin Sens. 1 - H317 STOT SE 3 - H335

SILICA SAND 30-60%

Classification Classification (67/548/EEC or 1999/45/EC)

Not Classified -

## **RENDEROC PLUG 20**

HIGH ALUMINA CEMENT (HAC) 10-30%

CAS number: 65997-16-2 EC number: 266-045-5

Classification Classification (67/548/EEC or 1999/45/EC)

Not Classified -

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

avoid contact with wet cement or wet cement containing perparations.

**Inhalation** Move affected person to fresh air at once. Dust in throat and nasal passages should clear

spontaneously. Get medical attention if irritation persists or later develops, or if discomfort,

coughing or other symptoms persist.

**Ingestion** Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Give

milk instead of water if readily available. Never give anything by mouth to an unconscious

person. Get medical attention immediately.

Skin contact Wash immediately with copious quantities of water. Remove contaminated clothing

immediately. Obtain medical advice if skin orders develop.

**Eye contact** Do not rub eye. Remove any contact lenses and open eyelids wide apart. Remove any

contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for 30 minutes. Get medical attention. Show this Safety Data Sheet to the medical

personnel.

#### 4.2. Most important symptoms and effects, both acute and delayed

General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure.

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

diseases.

**Ingestion** Ingestion of large doses may result in irritation to the gastrointestinal tract.

Skin contact May have an irritating effect on moist skin after prolonged contact, or may cause dermatitis

after repeated contact.

Prolonged skin contact with wet preparation may cause serious burns without pain being felt,

including through clothing.

**Eye contact** Eye contact may cause serious and potentially irreversible injuries.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor No specific recommendations.

# SECTION 5: Firefighting measures

## 5.1. Extinguishing media

Suitable extinguishing media The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

## 5.2. Special hazards arising from the substance or mixture

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

corrosive. No unusual fire or explosion hazards noted.

## **RENDEROC PLUG 20**

Hazardous combustion

products

No known hazardous decomposition products.

5.3. Advice for firefighters

Protective actions during

firefighting

No specific firefighting precautions known.

Special protective equipment

for firefighters

Use protective equipment appropriate for surrounding materials.

#### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid inhalation of dust. Use work methods which minimize dust production. Avoid contact

with eyes and prolonged skin contact. Wear protective clothing as described in Section 8 of

this safety data sheet.

#### 6.2. Environmental precautions

**Environmental precautions**Collect and dispose of spillage as indicated in Section 13. Do not discharge into drains or

watercourses or onto the ground.

## 6.3. Methods and material for containment and cleaning up

Methods for cleaning up Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into

suitable waste disposal containers and seal securely. Dry material: Collect powder using special dust vacuum cleaner with particle filter. Alternatively, damp powder with fine spray (to avoid dust formation) and remove slurry. Place into container and allow to solidify before disposal as described in section 13. Wet material: Clean up wet material and place in a

container. Allow to dry and solidify before disposal as described in section 13.

#### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. For waste disposal, see section 13.

#### **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Usage precautions Avoid contact with skin and eyes. Avoid generation and spreading of dust. Avoid inhalation of

dust. Mechanical ventilation or local exhaust ventilation may be required. Change contaminated clothing. Do not eat, drink or smoke when using the product.

## 7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry and cool place. Unsuitable container

materials: Aluminium. 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 To be stored out of reach of children in its

original packaging in a dry place.

Storage class Miscellaneous hazardous material storage. Water-reactive storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

#### **SECTION 8: Exposure Controls/personal protection**

# 8.1. Control parameters

Occupational exposure limits

ORDINARY PORTLAND CEMENT

# **RENDEROC PLUG 20**

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup>

SILICA SAND

Long-term exposure limit (8-hour TWA): WEL 0,1 mg/m³ Respirable crystalline silica

**HIGH ALUMINA CEMENT (HAC)** 

Long-term exposure limit (8-hour TWA): WEL 5 mg/m3 Inhal. Dust 10 mg/m3 total dust

WEL = Workplace Exposure Limit

## ORDINARY PORTLAND CEMENT (CAS: 65997-15-1)

**DNEL** Workers - Inhalation; Short term: 3 mg/m3

#### 8.2. Exposure controls

#### Protective equipment







Appropriate engineering

controls

Atmospheric levels of dust must be maintained within the Occupational Exposure Limit. Where mechanical methods are inadequate or impractical, appropriate personal protective equipment must be used.

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.

Eye/face protection

The following protection should be worn: Chemical splash goggles. (conform EN 166)

Hand protection

Use impervious, abrasion and alkali resistant gloves. Barrier cream applied before work may make it easier to clean the skin after exposure, but does not prevent absorption through the skin.

Other skin and body

protection

Use barrier creams to prevent skin contact. Wear appropriate clothing to prevent repeated or prolonged skin contact. Wear rubber footwear.

Hygiene measures

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 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

Wear a respirator fitted with the following cartridge: Particulate filter, type P2. Respiratory protection

#### **SECTION 9: Physical and Chemical Properties**

## 9.1. Information on basic physical and chemical properties

**Granulated Powder Appearance** 

Colour Grey.

Odour Odourless. Odour threshold Not relevant.

# **RENDEROC PLUG 20**

pH pH (diluted solution): >12

Melting point >1250°C

Initial boiling point and range Not applicable.

Flash point Not applicable.

**Evaporation rate** Not applicable.

**Evaporation factor** Not applicable.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or

explosive limits

The product is not flammable.

Vapour pressure Not applicable.

Vapour density Not applicable.

Bulk density 1.35 kg/l

Solubility(ies) Insoluble in water. Hardens in contact with water.

Auto-ignition temperature Not determined.

**Decomposition Temperature** Not determined.

Viscosity Not applicable.

**Explosive properties** Not considered to be explosive.

Explosive under the influence

of a flame

Not considered to be explosive.

Oxidising properties The mixture itself has not been tested but none of the ingredient substances meet the criteria

for classification as oxidising.

**Comments** Information given is applicable to the product as supplied.

9.2. Other information

Other information None.

# SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity** When mixed with water, hardens to form a stable mass that is not reactive in normal

conditions.

10.2. Chemical stability

Stability Stable under the prescribed storage 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 causes 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.

# 10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

Not known. Will not polymerise.

## 10.4. Conditions to avoid

## **RENDEROC PLUG 20**

Conditions to avoid Water, moisture.

10.5. Incompatible materials

Materials to avoid Acids Chemically-active metals.

10.6. Hazardous decomposition products

Hazardous decomposition

No known hazardous decomposition products.

products

## SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity - dermal

Acute toxicity dermal (LD50

2,000.0

mg/kg)

Species Rabbit

Skin sensitisation

Skin sensitisation Some individuals may exhibit eczema upon exposure to wet cement caused either by the high

pH which induces irritant contact dermatitis, or by an immunological reaction to soluble Cr (VI) which elicits allergic contact dermatitis. The cement contains a soluble Cr (VI) reducing agent and as long as the mentioned period of effectiveness is not exceeded, a sensitising effect is

not expected.

**Inhalation** Irritating to respiratory system. Inflammation of the nasal mucous membrane by exposure to

cement dust.

**Ingestion** May cause irritation of mouth, throat and digestive tract.

Skin contact This product is strongly irritating. Prolonged contact may cause burns. May cause

sensitisation by skin contact.

**Eye contact** Irritating and may injure eye tissue if not removed promptly.

Acute and chronic health

hazards

Repeated and/or prolonged contact may lead to dermatitis

# SECTION 12: Ecological Information

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

12.1. Toxicity

Acute toxicity - fish The product is not expected to be hazardous to the environment. The addition of cements to

water will, however, cause the pH to rise and may therefore be toxic to aquatic life in some

circumstances.

# 12.2. Persistence and degradability

**Persistence and degradability** The product is not biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential The product is not bioaccumulating.

12.4. Mobility in soil

Mobility The product hardens to a solid, immobile substance. The product is not volatile but may be

spread by dust-raising handling.

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## 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects None known.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

General information Do not empty into drains, sewers or water courses. Cement that has exceeded its shelf life:

when demonstrated that it contains more than 0.0002% Cr (VI), the product shall not be used other than in controlled closed and totally automated processes. It may be recycled and/or

treated again with a reducing agent.

**Disposal methods**Dispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority. Note that fully cured material is not considered as hazardous

waste.

## **SECTION 14: Transport information**

General The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, ADR/RID).

14.1. UN number

Not relevant.

UN No. (IMDG)

UN No. (ICAO)

14.2. UN proper shipping name

Not relevant.

14.3. Transport hazard class(es)

Not relevant.

ADR/RID class

ADR/RID subsidiary risk

ADR/RID label

**IMDG class** 

IMDG subsidiary risk

ICAO class/division

ICAO subsidiary risk

Transport labels

14.4. Packing group

Not relevant.

ADR/RID packing group

IMDG packing group

ICAO packing group

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#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not relevant.

**EmS** 

**Emergency Action Code** 

Hazard Identification Number (ADR/RID)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Not relevant.

Annex II of MARPOL 73/78

and the IBC Code

# SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as

amended).

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009

No. 716).

**EU legislation** Commission Regulation (EU) No 453/2010 of 20 May 2010.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as

amended).

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) (as amended).

Guidance Workplace Exposure Limits EH40.

# 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### SECTION 16: Other information

**General information** Only trained personnel should use this material.

**Revision comments** NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 29/05/2015

Revision 5

SDS number 10825

Risk phrases in full NC Not classified.

R37/38 Irritating to respiratory system and skin.

R41 Risk of serious damage to eyes.

R43 May cause sensitisation by skin contact.

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Hazard statements in full H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

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.