Breedon Cement Ltd

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II
Version 1 Revision Date 21 January 2015

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

1.1 Product identifiers

Product name : Raw Meal

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

Identified uses : Kiln Feed

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer : Breedon Cement Ltd
Hope Cement Works
Hope Valley Derbyshire
S33 6RP

Telephone : 01433 622 201

Email : cement@breedongroup.com
Internet : https://breedoncement.com/

1.4 Emergency telephone number

Emergency Phone # : 01433 622 201 (9am-5pm)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin irritation (Category 2), H315
Skin sensitisation (Category 1), H317
Eye damage (Category 1), H318
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram  Signal Word: DANGER

Hazard statement(s)
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H335 May cause respiratory irritation.

Precautionary statement(s) P260
Do not breathe dust.
P280 Wear protective gloves.
P284 Wear respiratory protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Other hazards – Contains Chromium (VI). May produce an allergic reaction.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Component	Classification	Concentration
Flue dust, Portland cement		
CAS-No. 68475-76-3 EC-No. 270-659-9 Index-No. [-]	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; Skin Sens. 1 H315, H317, H319, H335	Up to 100%
Calcium oxide		
CAS-No. 1305-78-8 EC-No. 215-138-9 Index-No. [-]	Skin Irrit. 2; Eye Dam. 1; H315, H318	5-50%
Crystalline silica (respirable fraction will be approximately 25% of the total fraction)		
CAS-No. 14808-60-7 EC-No. 238-878-4 Index-No. [-]	STOT RE 2; H373i	0-10%

For the full text of the H-Statements mentioned in this Section, see Section 16

4. FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled
Remove to fresh air and rest. If not breathing, give artificial respiration. If recovery is not rapid call for prompt medical attention. Show this safety data sheet to medical personnel. **In case of skin contact**
Remove contaminated clothing. Wash with soap/cleanser and rinse with plenty of water. If irritation persists or there are signs of skin damage obtain medical attention. **In case of eye contact**
Irrigate with water for at least 15 minutes. Take care not to wash chemical from one eye to another. Obtain immediate medical attention.
If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek further medical attention.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed
No data available.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media
Non-combustible. Use media such as alcohol/aqueous foam, dry chemical, or carbon dioxide or water spray/fog which is suitable and appropriate for any surrounding fire.

5.2 Special hazards arising from the substance or mixture
No significant toxic fumes or combustion products are likely be produced in a fire. Firefighting runoff from large quantities of material may be strongly alkaline and could cause irritation to eyes and skin.

5.3 Advice for firefighters

Do not breathe fumes. Use approved self-contained breathing apparatus. Wear fire retardant clothing. Use water spray to cool containers. Prevent runoff from fire control from entering waterways. Large fires should only be dealt with by trained personnel.

5.4 Further information
No data available.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use suitable personal protective equipment (refer to Section 8 for details). Avoid breathing dust. Ensure adequate ventilation.

6.2 Environmental precautions
Prevent further spillage if safe to do so. Do not let product enter drains or watercourses.

6.3 Methods and materials for containment and cleaning up
Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

6.4 Reference to other sections For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid formation of dusts. Provide appropriate exhaust ventilation at places where dust is formed. Do not allow product to be contaminated with water.

7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s) No data available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with occupational exposure limits

Component	CAS No.	Reference period	Exposure Limit	Basis
Portland cement	65997-15-1	8hr TWA	10mg/m^3(Total) 4mg/m^3 (Respirable)	UK. EH40 WEL
Calcium oxide	1305-78-8	8hr TWA	2mg/m^3	UK. EH40 WEL
Crystalline silica	14808-60-7	8hr TWA	0.1mg/m^3 (Respirable)	UK. EH40 WEL

8.2 Exposure controls

Appropriate engineering controls
Use in well ventilated areas. Use mechanical ventilation.

Personal protective equipment

Eye/face Protection
Use equipment for eye protection tested and approved under appropriate standards such as EN 166.

Skin Protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

Dispose of contaminated gloves after use in accordance with good practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Recommended glove types include Nitrile, PVC, PVA and Polythene gloves.

Body Protection

Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection

Use in well ventilated areas. Use mechanical ventilation if possible. If significant dust generated and mechanical ventilation is not available or not possible then use a respirator with filter type P3 to Standard EN14387, EN149 or equivalent.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance Form: White to fine grey/tan particulate

b) Odour None

c) Odour Threshold Not applicable

d) pH pH of solutions pH 10-13

e) Melting point/freezing point No data available

f) Initial boiling point and boiling >1000°C range

g) Flash point Not applicable

h) Evaporation rate Not applicable

i) Flammability (solid, gas) Non-Flammable

j) Upper/lower flammability or Non-flammable explosive limits

k) Vapour pressure Negligible

l) Vapour density Not applicable

m) Relative density 2.6-2.8 at 20°C

n) Water solubility 2-20% soluble in water, will form a highly alkaline leachate

o) Partition coefficient: (n- octanol/water) No data available

p) Auto-ignition temperature No data available

q) Decomposition temperature No data available

r) Viscosity Not applicable

s) Explosive properties None

t) Oxidizing properties None

9.2 Other safety information No data available

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10. STABILITY AND REACTIVITY

10.1 Reactivity
Undergoes an exothermic reaction with water

10.2 Chemical stability
Expected to be stable at normal temperatures and under recommended storage conditions

10.3 Possibility of hazardous reactions
Uncontrolled reaction with water can produce damaging levels of heat

10.4 Conditions to avoid
Moisture

10.5 Incompatible materials
Acids, strong oxidising agents, ammonium salts and aluminium metal

10.6 Hazardous decomposition products
No hazardous decomposition products when stored and handled correctly

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
LD_{50} (oral)/LD_{50} (dermal)/LC_{50} (inhalation): No acute lethal effects.

Skin corrosion/irritation
Exposure to wet Raw Meal dust or to dry dust on moist areas of the body can cause serious, potentially irreversible caustic burns to the skin.

Serious eye damage/eye irritation
Primary eye irritant – contact may cause severe eye irritation, ocular burns and permanent blindness if not treated immediately.

Respiratory or skin sensitisation
May cause sensitisation by skin contact

Germ cell mutagenicity No known mutagenic potential.

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No known toxic to reproduction potential.

Specific target organ toxicity - single exposure
Inhalation may cause respiratory irritation, severe exposure may cause chemical burns to the nose, throat and lungs.

Specific target organ toxicity - repeated exposure
The product gives potential for generation of respirable crystalline silica dust during handling and use. Prolonged inhalation of respirable dust may cause lung fibrosis. Principal symptoms of lung fibrosis are cough and breathlessness. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled. Repeated inhalation of excessive amounts of respirable silica may cause silicosis.

Aspiration hazard
No data available on mixture. Not expected to pose an aspiration hazard.

Potential health effects

Inhalation	Inhalation of dust may cause severe respiratory tract irritation/damage.
Ingestion	May be harmful if ingested in quantity with possible chemical burns to the throat and digestive tract.
Skin	May cause skin irritation, caustic burns, skin sensitisation and allergic contact dermatitis.
Eyes	Causes severe eye irritation and possible permanent damage.

Signs and Symptoms of Exposure
Exposure may cause the effects as described above.

Additional Information
Not available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available. Alkaline solutions formed during contact with water will be dangerous to aquatic life in high concentrations.
12.2 Persistence and degradability Will not biodegrade in the environment.
12.3 Bioaccumulative potential
No data available. Not expected to bioaccumulate.
12.4 Mobility in soil
Alkaline solutions formed during contact with water may penetrate soil causing groundwater contamination. Remaining insoluble components will be immobile.
12.5 Results of PBT and vPvB assessment
No data available. Will not meet PBT or vPvB criteria.
12.6 Other adverse effects No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product
Can be landfilled in compliance with local requirements and the Hazardous Waste Regulations 2005. The material should be buried to prevent possible generation of airborne respirable dust.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1 UN number
ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name ADR/RID/IMDG/IATA: Not dangerous goods
14.3 Transport hazard class(es) Not applicable
14.4 Packaging group Not applicable
14.5 Environmental hazards Not applicable
14.6 Special precautions for user Not applicable

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

Health & Safety at Work etc. Act 1974
Control of Substances Hazardous to Health Regulations 2002 (as amended)
Classification, Labelling and Packaging of Substances and Mixtures Regulations 2008 (as amended)
EH40/2005 Workplace Exposure Limits (as amended)
Environmental Protection Act 1990
Hazardous Waste Regulations 2005 (as amended)

15.2 Chemical Safety Assessment No data available.

16. OTHER INFORMATION

Further information

Full text of H-Statements referred to under sections 2 and 3.

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H335	May cause respiratory irritation
H373i	May cause damage to organs through prolonged or repeated exposure through inhalation

Recommended restrictions on use

Use in accordance with manufacturer's technical instructions.

Revision History First Issue.

Recommended restrictions on use

Use in accordance with manufacturer's technical instructions.

The information in this Safety Data Sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. This information has been prepared for the guidance of plant engineering, operations, management and for people working with or handling these products. This information is believed to be reliable and updated at Revision Date, and represents the best information currently available and known by Hope Construction Materials (Hope). However, Hope makes no guarantee or warranty, express or implied, with respect to such information and we assume no liability resulting from its use. The information related herein is based on proper handling and anticipated uses and is for the material without chemical additions or alterations. Users should make their own investigations to determine the suitability of the information for their particular purposes. It is the responsibility of the user to undertake a suitable risk assessment/COSHH assessment prior to using this material.