

Safety Data Sheet

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifier

Product Name

Natural aggregates consisting of rock fragments in their natural state which have been subjected to mechanical processing such as crushing, washing and sizing.

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

Identified Uses

Fill materials including single size and graded, unbound or bound fill materials, The manufacture of ready-mixed and pre-cast concrete, and Bituminous mixtures for road construction.

Uses Advised Against

No specific uses advised against are identified.

1.3 Details of the supplier of the safety data sheet

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1.4 Document

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1.5 Contact Person

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Section 2: Composition/ Information on Ingredients

2.1 Calcium Carbonate

Classification

- Skin irritant 2 – H315
- Eye irritant 2 – H319
- Eye Damage – H318
- STOT SE 3 – Respiratory and Inhalation H335

2.2 Magnesium Carbonate

- Skin Irritant 2 – H315
- Eye irritant 2 – H319
- Eye Dam 1 – H318
- STOT SE 2 – Lungs H317
- STOT SE 3 – Respiratory H335

2.3 Crystalline Silica (Quartz)

Classification

- STOT RE 2; H373i
- Concentration Variable dependent on source.

2.4 Aluminium Oxide

Classification

- STOT SE 3 – H335 Lungs and Inhalation

2.5 Iron Oxide Fe₂O₃

Not Classified.

2.6 Trace Minerals

These can be small particles of quartz, feldspar, clay minerals, pyrite, siderite, and other minerals. It can also contain large nodules of chert, pyrite, or siderite.

Section 3: Hazard Identification

3.1 Classification of the Substance or Mixture

Not classified as hazardous according to Regulation (EC) No. 1272/2008.

This product gives the potential for generation of respirable dust during handling and use. Dust may contain respirable crystalline silica.

Prolonged inhalation of respirable dust can constitute a long term health hazard such as lung fibrosis. 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.

3.2 Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

Section 4: First Aid Measures

4.1 Ingestion

Ingestion of significant quantities of aggregate that could cause harm is very unlikely. If material enters the mouth. Give plenty of water to drink. Seek medical attention if feeling unwell. Do not induce vomiting. Seek medical advice in the unlikely event of significant quantities being ingested.

4.2 Inhalation

Move person to fresh air. Seek medical attention for discomfort or if coughing or other symptoms do not subside.

4.3 Skin contact

Wash with water and soap or mild skin detergent. Seek medical advice for rash and irritation remove contaminated clothing. Skin absorption is not expected to be a significant exposure route.

4.4 Eye contact

Do not rub eyes, as the material is abrasive and may scratch the surface of the eye. Immediately and thoroughly irrigate with water. Seek medical attention.

Safety Data Sheet

Section 5: Firefighting Measures

5.1 General Hazard

Material is not flammable or combustible. Use media suitable for other any other materials present that may be involved in a fire.

There is no unsuitable fire extinguishing media.

5.2 Extinguishing Media

Not applicable.

5.3 Firefighting Equipment

Not applicable.

Section 6: Accidental Release Measures

6.1 General

Personal precautions, protective equipment and emergency procedures
Avoid breathing dusts and excessive physical contamination.

6.2 Environmental

Contain the spillage, not expected to present any environmental risk. Spray with water to prevent the generation of dust. Do not dry sweep residues. Contain so as to avoid the generation of dust (i.e. cover or enclose).

6.3 Disposal

Dispose of limestone according to local regulations.

Section 7: Handling and Storage

7.1 Handling

- S22 Do not breathe dust.
- S25 Avoid contact with eyes.
- Use gloves to prevent mechanical irritation.
- Consider manual handling when handling bagged product.

7.2 Storage

- Materials should be stored to minimise the generation of airborne dust from wind whipping and material movement.
- Very fine dry product in bulk should be stored in enclosed silos.
- Bulk aggregate containing fine material (<3mm) should not be stored in the open unless conditioned with water to avoid dust generation.

7.3 Storage Pressure and Temperature

Unlimited.

7.4 Clothing

Remove and launder clothing that is contaminated with dust. Wash skin after exposure to dust.

7.5 Product Specific

Stockpiles should be stored in restricted areas away from children and animals, consideration should be given to the potential hazard of spillage.

Section 8: Exposure Controls And Personal Protection

8.1 Exposure Limits Values

WEL 8 Hr TWA (Time Weighted Average):

- 10mg m³ Total inhalable dust.
- 4 mg m³ Respiratable dust.

8.2 General

Avoid contact with skin and eyes, minimise generation of dust. Wear Personal Protective Equipment and wash exposed skin, hands and face after use. The use of barrier cream may also be considered.

8.3 Respiratory Protection

Use respiratory protection compliant with appropriate British standards. Air stream helmets should be used for prolonged or heavy exposure of dust from cutting, grinding, drilling and dressing.

8.4 Hand Protection

Hand protection is recommended for prolonged exposure, as good practice wash hands after use.

8.5 Eye Protection

Suitable eye protection must be work dependant on the use of material.

8.6 Skin Protection

Use appropriate closed long sleeved protective clothing. Suitable safety footwear should be used.

8.7 Environmental Exposure Controls

Follow best practice for site management and disposal of waste.

Section 9: Chemical and Physical Properties

9.1 Physical State

Powder, granules or grit.

9.2 Appearance

Powder, granules, grit, chippings and stone.

9.3 Odour

None.

Safety Data Sheet

9.4 Vapour Pressure, Evaporation Rate and Vapour Density

N/A

9.5 Relative Density

2.3 – 2.7

9.6 pH in Water

Various.

9.7 Boiling Point and Freezing Point

No data.

9.8 Viscosity

No data.

9.10 Melting Point

Magnesium and calcium carbonate decompose above 380°C.

Section 10: Stability and Reactivity

10.1 Stability

Stable under normal conditions. No dangerous reactions known under conditions of normal use.

10.2 Incompatibility

Keep material away from strong acids. Freely soluble in acid.

10.3 Hazardous Decomposition and Hazardous Polymerization

- When heated in excess of 580°C calcium oxide may be formed.
- When heated in excess of 825°C calcium oxide fumes and carbon dioxide are liberated.

Section 11: Toxicological

Information on Toxicological Effects

- LD50 oral (rat) >6450mg/kg
- ATE oral (rat) >2000mg/kg
- ATE dermal (rabbit) >2000mg/kg
- ATE inhalation (rat) >5mg/L 4h

Acute Toxicity

N/A

11.1 Eye Contact

Direct contact with product may cause corneal damage by mechanical abrasion, inflammation or irritation.

11.2 Skin corrosion and Irritation

Exposure to product may cause cracking or drying of the skin.

11.3 Respiratory Sensitisation

May irritate the respiratory tract, coughing, sneezing and shortness of breath may occur following exposure to levels in excess of the occupational exposure limits. Respirable crystalline silica as a Group 1 carcinogen, therefore long term exposure may cause cancer.

11.4 Ingestion

Large quantities may cause irritation to the gastrointestinal tract.

Chronic Toxicity

Chronic exposure in excess of the occupational exposure limits may cause irreversible damage to the respiratory tract.

Section 12: Ecological

Environmental Assessment

12.1 When Used and Disposed of as Intended

When used and disposed of as intended, no adverse environmental effects are foreseen. Aggregates are naturally occurring, inert minerals and do not pose a significant ecological hazard. Mobility.

12.2 Mobility

Aggregates are non-volatile, inert materials that will sink in water and form a layer on the surface of the ground. Dust may become airborne, leading to deposition on vegetation and subsequent damage. Dust may become airborne

12.3 Persistence and Degradability

Inorganic material: no adverse effects would be expected.

12.4 Eco Toxicity

Not expected to be toxic to aquatic organisms.

12.5 Bio Accumulative Potential

No data available.

Section 13: Disposal Considerations

13.1 Waste Treatment Methods

Dispose of waste material at a site authorised to waste or according to local and national regulations.

13.3 Contaminated Packaging

Dispose of empty sacks/bags at a site authorised to waste or according to local and national regulations.

Safety Data Sheet

Section 14: Transport Information

14.1 General

- Not classified as hazardous for air, sea or road freight.
- No special precautions apply. Open bulk vehicles used to carry the product should be sheeted to avoid the generation of dust.

Section 15: Regulatory Information

15.1 Classification

Not classified as dangerous.
However, consideration of the following Hazard & Precautionary Statements is recommended:

- Text of H-code(s) and R-phrase(s) mentioned in section 3
- H373i May cause damage to organs through prolonged or repeated exposure by inhalation.

Directive 67/548/EEC Irritant Xi



Section 16: Other Information

16.1 Risk Phrases

- R36 Irritating to the eyes.
- R37 Irritating to the respiratory system.

16.2 Safety Phrases

- S22 Do not breathe dust.
- S25 Avoid contact with eyes.

16.3 Hazard Phrases

- H315 Causes skin irritation.
- H317 May cause allergic skin reaction
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation

16.3 Guidance and Reference

- PPE Regulations
- COSHH Regulations
- Data sheet updated in accordance with REACH Directive Annex 11

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. This Material Safety Data Sheet does not constitute the user's own assessment of workplace risk, and it is the user's sole responsibility to take all necessary safety precautions when using this product. The receiver of our product is singularly responsible for adhering to existing laws and regulations and to carry out suitable assessment of risk prior to use, calling on all relevant information.

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