

MATERIAL SAFETY DATA SHEET

1. Product & Company Identification

1.1 Identification of the substance or preparation.

Product Name: - Granular/Powdered Fireclay AA33 /AA320 /AA203

Generic Name: - Fireclay

1.2 Use of the substance/preparation

Granular or Powdered fireclay used in high temperature insulating concretes and refractory cements.

2. Composition/Information on Ingredients

2.1 Physical Description

Granular and Powdered Fireclays are produced by milling raw fireclay to a size of 3mm down.

2.2 Chemical Composition

The predominant components are oxides of silicon (SiO_2), aluminium (Al_2O_3) and iron (Fe_2O_3).

3. Hazard Identification

3.1 Inhalation

Respirable dust containing quartz from this product, like many other crushed products if inhaled over an extended time may constitute a health hazard.

3.2 Eyes

Dust generated from this product may result in irritation if it enters the eyes. Eye protection is recommended.

3.3 Skin

No particular hazard is associated with this product in contact with the skin. However good practice should be followed with regard to hygiene particularly before eating or smoking etc.

4. First Aid Measures

4.1 Inhalation

No specific first aid measures can be applied, however if large quantities of dust is inhaled then remove the patient to fresh air.

4.2 Eyes

Irrigate eye(s) immediately with clean water. Seek medical attention.

4.3 Skin

No specific first aid measures are necessary.

4.4 Ingestion

There are no known adverse effects. Wash mouth out with water and give water to drink. Do not induce vomiting.

In all cases should exposure be excessive or symptoms develop seek medical attention.

5. Fire Fighting Measures

No fire or explosion hazard, as the materials are non-combustible.

6. Accidental Release Measures

6.1 Personal precautions.

Where dust is created as a result of the release normal respiratory personal protective equipment may be necessary.

6.2 Environmental precautions

Fireclay is a natural substance and therefore no specific precautions are required to protect the environment.

6.3 Spillage/methods for cleaning up

Dry sweeping should be avoided. Water spray or vacuum systems are recommended.

7. Handling & Storage

7.1 Handling

The carriage of Fireclay is not subject to dangerous substance conveyance regulations. Vehicle and package labelling is not required. Vehicles should be sheeted during transportation.

Good practise should be employed when handling the material to avoid excessive dust generation.

7.2 Storage

Storage should be arranged to avoid scattering of the aggregate as it may create a skid hazard.

8. Exposure Control/ Personal Protection

8.1 Exposure limit values.

There are no specific occupational exposure limits but exposure to airborne dust may cause irritation to the eyes and respiratory system. Personal exposure should be controlled to the minimum that is reasonable practical and in any case keeps total dust exposures below 10mg/Cu.M and respirable dust below 5mg/Cu.M. Avoid ingestion.

8.2 Exposure controls

Inhalation of dust should be avoided. Suitable dust masks should be worn in enclosed spaces where adequate ventilation is not provided. For other general Principles for protection refer to Guidance note EH44: Dust- general principles of protection: (HSE) ISBN 0 11 885595 6 from the Health & Safety Executive.

No other special protective clothing is required but eye protection is recommended in all circumstances.

9. Physical and Chemical Properties

9.1 General information.

Granular or Powdered Fireclay in the form of angular particles grey in colour.

The lower sizes of both products are of potential respirable dust, which could include quartz.

Smell: Odourless

9.2 Important health, safety & environmental information.

Fireclay has a very low solubility however, when mixed with water a pH in the range 7 - 8 may be expected in the solute.

9.3 Other information

For most situations Fireclay can be considered to be inert.

10. Stability and Reactivity

Fireclay is stable.

11. Toxicological Information

No known toxicological effects.

12. Ecological Information

For the reasons given in 10, Fireclay has no known detrimental ecological effects.

13. Disposal Considerations

Fireclay is chemically inert but should be disposed of in accordance with local legal requirements.

14. Transport Information

Not classified as dangerous under the Classification Packaging and Labelling of Dangerous Substances regulations.

15. Regulatory Information

Risk Phrases – None

Safety Phrases – None

Label for Supply – Not required

Health & Safety at Work Act 1974

Control of Substances Hazardous to Health (Regulations)

HSE Guidance Note EH44 – Dust General Principles of Protection

HSE Guidance Note EH40 – Occupational Exposure Limits

Manual Handling Regulations

16. Other Information

This MSDS was first issued in April 2004 and was revised from the original document, 'Health and Safety Product Information' to meet the requirements for a Material Safety Data Sheet conforming to the requirements of COSHH. To the best of our knowledge the information contained herein is accurate. Although certain hazards may be described we cannot predict that these are the only hazards that may exist in the workplace. This MSDS, therefore forms a component only of a risk assessment carried out by, or on behalf of the user.

