

# CALUMITE LIMITED



## Material Safety Data Sheet Chemicals (Hazard Information and Packaging) for supply Regulations 2002 CALUMITE®

February 2003  
Revision

### 1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

#### 1.1 Name

Calumite is crushed blast furnace slag used as a glass making raw material.

#### 1.2 Supplier and Manufacturer

Calumite Ltd, Brigg Road  
Scunthorpe, North Lincolnshire  
DN16 1AW Tel: 01724 282211 Fax: 01724 280338

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### 2.1 Chemical Description

Calumite is a glass consisting principally of the oxides of calcium, silicon, aluminium and magnesium with low solubility in water giving a weak alkaline solution. The bulk density is between 1000 and 1375 kg/m<sup>3</sup>.

CAS Number 65996-69-2.

#### 2.2 Hazardous Ingredients

The lime, calcium silicates and alkalis within the Calumite are partially soluble and when mixed with water will give rise to a weak alkaline solution.

#### 2.3 Classification and Risk Phrases

Irritant, Xi.

R36/38 Irritating to eyes and skin.

### 3. HAZARDS IDENTIFICATION

Calumite is a granular material that contains a proportion of nuisance dust. Direct contact may irritate skin, eyes, respiratory system and the gastro-intestinal tract.

### 4. FIRST AID MEASURES

#### 4.1 Eye Contact

Wash eyes immediately with plenty of clean water for at least 15 minutes and seek medical advice without delay.

#### 4.2 Skin Contact

Wash the affected area thoroughly with soap and water before continuing. If irritation, pain or other skin trouble occurs, seek medical advice.

#### 4.3 Ingestion

Do not induce vomiting. Wash out mouth with water and give patient plenty of water to drink. Seek medical advice if discomfort continues.

#### 4.4 Inhalation

If irritation occurs, move to fresh air. If nose or airways become inflamed seek medical advice.

### 5. FIRE FIGHTING MEASURES

Calumite is not flammable and will not facilitate combustion with other materials.

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal Precautions

Refer to exposure controls/personal protection.

#### 6.2 Cleaning Up

Recover the spillage in a dry state by vacuuming, if possible, to minimise generation of airborne dust.

### 7. HANDLING AND STORAGE

#### 7.1 Handling

When handling Calumite in bags due regard should be paid to the risks outlined in the Manual Handling Operations Regulations 1992. Some bags may have a small amount of Calumite on the outer surface. Appropriate personal protective clothing should therefore be used whilst handling.

#### 7.2 Storage

Bags should be stacked in a safe and stable manner.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Occupational Exposure Standard (OES)

OES 8hr Time Weighted Average (TWA) 10mg/m<sup>3</sup> total inhalable dust 4mg/m<sup>3</sup> respirable dust.

#### 8.2 Engineering Measures

Where reasonably practicable dust exposures should be controlled by engineering methods.

#### 8.3 Personal Protective Equipment

##### 8.3.1 Respiratory Protection

Suitable respiratory protection should be worn to ensure that personal exposure is less than the OES.

##### 8.3.2 Hand and Skin Protection

Protective clothing should be worn which ensures that Calumite does not come into contact with the skin.

##### 8.3.3 Eye Protection

Dust-proof goggles should be worn wherever there is a risk of Calumite entering the eye.

#### 8.4 Environmental Exposure Controls

Calumite is classed as a nuisance dust and its entry into the atmosphere should be minimised.

9. **PHYSICAL/CHEMICAL PROPERTIES**

9.1 **Physical Data**

Appearance	Granular
Mean particle size	300 micron
Relative density	2750-3000kg/m <sup>3</sup>
pH	Not applicable
Odour	Not applicable
Boiling point/boiling range	Not applicable
Melting point/melting range	Not applicable
Flash point	Not applicable
Flammability	Non flammable
Explosive properties	None
Oxidising properties	None
Solubility	Not applicable

9.2 **Other Data**

Mainly a mixture of: CaO SiO<sub>2</sub> Al<sub>2</sub>O<sub>3</sub> MgO

Contains less than 1% crystalline silica.

10. **STABILITY AND REACTIVITY**

Conditions contributing to chemical instability	: none
Hazardous decomposition products	: none
Special precautions	: none

11. **TOXICOLOGICAL INFORMATION**

11.1 **Short Term Effects**

11.1.1 **Eye Contact**

Calumite is an eye irritant. Mild exposures can cause soreness. Gross exposures or untreated mild exposures can lead to chemical burning and ulceration of the eye.

11.1.2 **Skin Contact**

Prolonged contact with Calumite may cause dermatitis. No connection has been established between Calumite and dermatitis but this possibility cannot be ruled out.

11.1.3 **Ingestion**

The swallowing of small amounts of Calumite is unlikely to cause any significant reaction. Larger doses may result in irritation to the gastro intestinal tract.

11.1.4 **Inhalation**

Calumite may cause inflammation of mucous membranes.

11.2 **Chronic Effects**

High repeated exposures in excess of the OES can be linked with rhinitis and coughing.

12. **ECOLOGICAL INFORMATION**

12.1 **Aquatic Toxicity Rating**

LC50 aquatic toxicity rating not determined.

12.2 **Other Information**

No other ecological effects foreseen.

13. **DISPOSAL CONSIDERATIONS**

Dispose of empty bags or surplus Calumite to a place authorised to accept waste in accordance with the Duty of Care requirements.

14. **TRANSPORT INFORMATION**

Classification for conveyance is not required.

15. **REGULATORY INFORMATION**

15.1 **Substance Particulars**

15.1.1 **Indication of Danger**

Irritant, Xi.

15.1.2 **Risk Phrases**

R36/38 Irritating to eyes and skin.

15.1.3 **Safety Phrases**

S25 Avoid contact with eyes.

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

S37 Wear suitable gloves.

15.2 **Other Relevant Measures**

Health & Safety at Work, etc Act 1974.

Control of Substances Hazardous to Health Regulations 2002.

15.3 **Assessment of Risk**

The information contained in this data sheet does not constitute the user's own assessment of workplace risk as required by other health and safety legislation.

16. **OTHER INFORMATION**

HSE Guidance Note EH40 (Occupational Exposure Limits).

Any authorised manual on First Aid by St Johns/St Andrews/Red Cross.

Manual Handling Operations Regulations 1992.

COSHH Regulations 2002.

Revised February 2003 to comply with CHIP 3 Regulations.

