

# 1. Identification and company information

MSDS Name: SYLENTMITE

**Uses:** For controlled rock and concrete fragmentation and denaturation, rock breaking, quarrying, excavating.  
**Company Identification:** EXXOC UK LTD, Alex House, 268 Chapel Street, Salford, Lancs, M3 5Z, UK  
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For information in USA call: 011 44 771 4521000  
MSDS Authorized by: Exxoc UK Limited, July 2007

## 2. Composition, information on ingredients

**Composition:** Predominantly Calcium Oxide, UN1910 EC EINECS 215-138-9, with inert modifier

**Typical Analysis:**

Silicon Dioxide	0 - 2 %
Aluminium Oxide	1 - 5 %
Ferrous Oxide	0 - 2 %
Calcium Oxide	79 - 99 %
Magnesium Oxide	0 - 2 %
Manganese Oxide	0 - 2 %
Sulphur	0 - 2 %
Sulphur Trioxide	0 - 2 %
Potassium Oxide	0 - 2 %
Sodium Oxide	0 - 2 %

**Hazard Symbols (indication of danger):** C  
**Risk Phrases:** 35

## 3. Hazards Identification

**EMERGENCY OVERVIEW:** Causes burns

**Potential Health Effects:**

**Eyes:**

Produces irritation, burning sensation, redness, tearing, inflammation and possible corneal injury.  
Severe burns if not washed off immediately.

**Skin:**

Contact with skin causes irritation and possible burns, especially if the skin is wet or moist. May cause deep penetrating ulcers of the skin if not cleaned off, especially inside gloves, boots etc.

**Ingestion:**

Extremely unlikely by accident. May cause severe gastrointestinal tract irritation with nausea, vomiting and possible burns. May cause excess salivation, painful swallowing, rapid pulse and thermal burns.

**Inhalation:**

May cause severe irritation of the upper respiratory tract with pain, burns, and inflammation. Very severe accidental inhalation could result in spasms, inflammation, oedema of the larynx and bronchi, chemical pneumonitis and pulmonary oedema. Prolonged or repeated skin contact may cause dermatitis.

## 4. First Aid Measures

**Eyes:**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid immediately.

**Skin:**

Wash the powder off with cool water. In case of heavy contamination, contact immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If there is any sign of inflammation, get medical aid immediately. Wash clothing before reuse.

**Ingestion:**

If swallowed (orally unlikely by accident), do NOT induce vomiting. Get medical aid immediately. If victim is fully conscious, give as much water as victim can comfortably manage. Never give anything by mouth to an unconscious person. If inhaled, and person is in distress, remove to fresh air. Get medical aid.

**Inhalation:** Treat symptomatically and supportively

## 5. Fire Fighting Measures

**General Information:** Normal fire fighting precautions. Syilentmite is unlikely to exacerbate the fire or introduce extra hazards.

**Extinguishing Media:**

Do NOT use foam (restricted water generates heat). Use flooding quantities of water as spray.

## 6. Accidental Release Measures

**General Information:** Assess foreseeable exposure. Use proper personal protective equipment as indicated in Section 8.

**Spill/Leak:**

Vacuum material and place into a suitable dry disposal container. Avoid generating dust conditions. Provide ventilation.

## 7. Handling and Storage

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Do not get in eyes, on skin or on clothing. Do not breathe dust. Use only with adequate ventilation

**Storage:**

Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from Water. Do not open packs until required for use.

## 8. Exposure Controls, Personal Protection

**Composition:** Predominantly Calcium Oxide, UN1910 EC EINECS 215-138-9, with inert modifier.

**Engineering Controls:**

Facilities storing or utilizing this material in packs of a few kilograms each should be equipped with an eyewash facility. Use careful handling, open air handling, or adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

**Exposure Limits (For Calcium Oxide):**

United Kingdom, WEL - TWA: 2 mg/m<sup>3</sup> TWA  
United States OSHA: 5 mg/m<sup>3</sup> TWA  
Belgium - TWA: 2 mg/m<sup>3</sup> VLE  
France - VME: 2 mg/m<sup>3</sup> VME  
Netherlands: 2 mg/m<sup>3</sup> MAC  
Spain: 2 mg/m<sup>3</sup> VLA-ED

**Personal Protective Equipment:**

**Eyes:**

Wear appropriate protective eyeglasses or chemical safety goggles to prevent accidental contact. If significant airborne dust exposure is foreseeable, wear powered visor or hood to THD

**Skin:**

Wear appropriate gaudier gloves to prevent skin contact

**Clothing:**

Wear protective clothing to prevent skin contact.

**Respirators:**

Use a respirator to European Standard EN 149 P1,2 or 3 according to the foreseeable exposure concentration if irritation or other symptoms are experienced.

## 9. Physical and Chemical Properties

**Physical State:**

powder

**Colour:**

white, light yellow, light grey

**Odour:**

none

**pH:**

alkaline

**Vapour Pressure:**

negligible.

**Viscosity:**

solid

**Melting Point:**

very high

**Autoignition Temperature:**

not flammable

**Flash Point:**

not applicable.

**Explosion Limits:**

not applicable

**Decomposition Temperature:**

not applicable

**Solubility in water:**

reacts with water with evolution of heat

**Density:**

3.3 tonnes/m<sup>3</sup> bulk, approx (3.3 g/cm<sup>3</sup>)

## 10. Stability and Reactivity

**Chemical Stability:**

Absorbs carbon dioxide from the air. Hygroscopic: absorbs moisture or water from the air. Reacts with water releasing heat and forming somewhat alkaline Ca(OH)<sub>2</sub> solution.

**Conditions to Avoid:**

Exposure to moist air or restricted amounts of water.

**Incompatibilities with Other Materials:**

Acids, halogens, water

**Hazardous Decomposition Products (with water):**

Calcium hydroxide (low hazard).

**Hazardous Polymerization:**

Will not occur.

## 11. Toxicological Information

**LD50/LC50:**

no information

**Carcinogenicity:**

Calcium oxide - Not listed as a carcinogen by ACGH, IARC

## 12. Ecological Information

No details - but becomes slaked lime after treatment with water.

## 13. Disposal Considerations

**Syilentmite will be Hazardous Waste:** consult the Hazardous Waste authority. SMALL amounts of Syilentmite may be treated by slowly adding to a large amount of water with stirring. The resulting slurry is not Hazardous Waste

## 14. Transport Information

IMO, RIDADR & CDGR is Not Applicable to UN 1910  
(No restriction to ship by Land or Sea)

**LATA**

Shipping Name:	CALCIUM OXIDE
Hazard Class:	8
UN Number:	1910
Packing Group:	III

**IMO**

NOT APPLICABLE

**RIDADR**

NOT APPLICABLE

## 15. Regulatory Information

**European Labelling in Accordance with EC Directives (UK CHIP Regulations)**

**Indication of Danger:** C

**Risk Phrases:** R 35 Causes severe burns.

**Safety Phrases:** S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 43 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

## 16. Other Information

**SDS Creation Date:** 19 July 2007 by Practical COSHH Solutions

The information above is believed to be accurate and represents the best information currently available to us. Users should make their own investigations to determine the suitability of the information for their particular purposes.

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## MATERIAL SAFETY DATA SHEET

SYLENTMITE (non-explosive fragmentation agent)