

**CLEAR SOLUTIONS**Performance Drilling Products
The Earth Can Trust**PRODUCT NAME:** Barite**Safety Data Sheet No:** 5028EC**1. Identification of the Substances and Details of the Company****Product Description:** Barium Sulphate**Suppliers Name and Address:**Clear Solutions International Ltd
Unit B3, Wem Industrial
Estate**Date Prepared:** January 2004**Issue No:** 2**Date Reviewed:** March 2016Soulton Road
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ENGLAND**Tel:** +44 (0) 1939 235754**Fax:** +44 (0) 1939 232399**2. Hazards Identification****Classification of the substance or mixture**

Classification - Regulation (EC) No 1272/2008: not hazardous

Classification – Directives 67/548/EEC, 1999/45/EC: not classified

Label elements

Labeling Regulation (EC) No 1272/2008: not classified

Other hazards

Not classified

3. Composition/Information on Ingredients**Substance**Barium Sulphate BaSO_4 | >93.5% | CAS No. 7727-43-7Calcium Carbonate CaCO_3 | 1.5 - 2.0% | CAS No. 471-34-1**4. First Aid Measures****Eye Contact:** Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention if discomfort continues.**Ingestion:** Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. In case of discomfort, seek medical advice.**Skin:** Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.**Inhalation:** Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.**5. Fire Fighting Measures****Extinguishing Media:** The product is non-combustible. Use fire-extinguishing media appropriate for surrounding materials.**Protective Measures in Fire:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

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PRODUCT NAME: Barite Ultra Fine**Safety Data Sheet No:** 5028EC**6. Accidental Release Measures**

Personal Protection: Wear protective equipment as described under Section 8 and follow the advice for safe handling and use given under Heading 7.

Spill Clean up Methods: Shovel into dry containers. Cover and move the containers. Flush the area with water.

Environmental Precautions: Do not allow to enter drains, sewers or watercourses.

7. Handling and Storage

Normal precautions for the handling of chemicals should be observed.

Usage Precautions: Avoid handling which leads to dust formation. Provide good ventilation. Mechanical ventilation or local exhaust ventilation may be required. Do not use contact lenses.

Storage Precautions: Store in tightly closed original container in a dry, cool and well-ventilated place.

8. Exposure Controls/Personal Protection

Name	Type	LT-mg/m ³
BARIUM	WEL	4 mg/m ³ (respirable dust)
SULPHATE		10 mg/m ³ (total dust)

Ingredients Comments: WEL = Workplace Exposure Limits

Engineering Measures: Provide adequate general and local exhaust ventilation.

Respiratory Equipment: Respiratory protection must be used if air contamination exceeds acceptable level. Dust filter P3 (for especially fine dust/powder).

Hand Protection: No specific hand protection noted, but gloves may still be advisable. For prolonged or repeated skin contact use suitable protective gloves, rubber or plastic.

Eye Protection: Wear dust resistant safety goggles where there is danger of eye contact.

Other Protection: Wear appropriate clothing to prevent repeated or prolonged skin contact. Provide eyewash station.

9. Physical and Chemical Properties

Appearance:	Powder, dust
Colour:	Tan to Grey or White
Odour:	Odourless or no characteristic odour
Solubility:	Insoluble in water
Bulk Density:	1920-2400 kg/m ³
Relative Density:	4.2 – 4.25 s.g.

10. Stability and Reactivity

Stability: Stable under normal temperature conditions.

Conditions To Avoid: Avoid wet and humid conditions.

11. Toxicological Information

Inhalation: Dust may irritate respiratory system or lungs. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Ingestion: May cause discomfort if swallowed.

Skin Contact: Powder may cause mechanical irritation to skin.

Eye Contact: Particles in the eyes may cause irritation and smarting.

Health Warnings: This product contains small quantities of quartz. Prolonged inhalation of high concentrations may damage respiratory system. Because of quantity and composition, the health hazard is small.



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12. Ecological Information

Ecotoxicity: This material is a naturally occurring mineral. OSPAR have defined this chemical as PLONOR.

13. Disposal Considerations

Disposal Methods: Recover and reclaim or recycle, if practical. Dispose of waste and residues in accordance with local authority requirements.

14. Transport Information

General: The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

15. Regulatory Information

Risk Phrases: NC – Not classified

Safety Phrases: NC – Not classified

UK Regulatory References: Chemicals (Hazard Information and Packaging) Regulations

EU Directives Reach: With respect to minerals, Article 2 & 7 (b) and Annex V point 7 explicitly exempt from registration and evaluation “minerals which occur in nature, if they are not chemically modified”. This product is exempt from registration. Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC.

Guidance Notes: Workplace Exposure Limits EH40.

16. Other Information

General Information: HMIS Health – 1 HMIS Flammability – 0 HMIS Physical Hazard – 0 E – Safety Glasses, Gloves, Dust Respirator

Information Sources: Material Safety Data Sheet, Misc. manufacturers. Micromedex.

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