



SAFETY DATA SHEET

1. Identification of the substance/preparation and the company

BARYTES B2000, BARYTES B5000

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2. Composition/information on ingredients

Barium Sulphate BaSO ₄	> 95 %	CAS.NO: 7727-43-7
Crystalline Silica SiO ₂	< 1.0 %	CAS.NO: 14808-60-7
Calcium Carbonate CaCO ₃	< 1 %	CAS.NO: 1317-65-3

3. Hazards identification

This product is not classified as dangerous for supply under regulation 5 of the Chemicals (Hazard Information and Packaging) Regulations (CHIP). Avoid prolonged exposure to high concentrations of dust by inhalation.

4. First-aid measures

First Aid – Eyes	Flush out with water particularly under eyelid.
First Aid – Skin	Wash with soap and water
First Aid – Ingestion	If large quantities are ingested, seek qualified medical advice.
First Aid – Inhalation	Remove from dusty atmosphere, no emergency care normally required.

5. Fire-fighting measures

Extinguishing media: Non flammable, use media appropriate to surrounding fire.

6. Accidental release measures

General information Dampen with water to prevent dust formation and shovel up into plastic bags or other suitable container. Refer to section 13 (Disposal considerations)

Small residues may be washed away to drains.

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7. Handling and storage

Handling Local exhaust ventilation may be required if handling large quantities on a continuous basis. A dust mask will be adequate for smaller quantities and/or intermittent use. Refer to the following HSE publications for further information : HS(G)37 "Introduction to local exhaust ventilation". EH44 "Dust : General principles of protection".

Storage Store in a cool, dry place away from foodstuffs.

8. Exposure controls/Personal protection

Occupational exposure standards

Substance	Occupational Exposure Limits 8 Hour TWA	
	Total Dust mg/m ³	Respirable Dust mg/m ³
Barium Sulphate	10.00	4.00

General Information Refer to section 7 (Handling and storage) and section 15 (Regulatory information). If dust levels are likely to exceed the OES, a dust mask must be worn, complying with BS EN 149 "Specification for filtering half masks to protect against particles".

Goggles should be worn if necessary. Overalls and gloves may help prevent workers becoming excessively dirty.

9. Physical and chemical properties

Form: powder
 Colour: white
 Odour: odourless
 Flash point: not applicable
 Solubility in water: < 10⁻² g/l
 Vapour pressure: not applicable
 Density: approx. 4.4 g/cm³ at 20 °C
 Flammability: non-flammable
 Explosive limits: may explode if heated with aluminium
 Ignition temperature: not applicable
 Decomposition temperature: 1580 °C

10. Stability and reactivity

Stability Stable under normal conditions.
Hazardous decomposition: > 1580 °C decomposes emitting toxic fumes of SO_x
Hazardous reactions: Aluminium, phosphorus.

11. Toxicological information

According to the present state of knowledge barytes is physiologically harmless; under extreme conditions, however, mechanical action arising from eye contact (action of dust) may cause slight temporary irritation of the mucosa.

12. Ecological information

As the product is practically insoluble in water, it is separated in almost any filtration and sedimentation process.

Barytes is a naturally occurring mineral presenting no hazard to the environment.

13. Disposal considerations

May be disposed of in approved landfills provided local regulations are observed.
Return large quantities to manufacturer.

14. Transport information

No special requirements for transportation by sea, road, rail or air.

15. Regulatory information

No labelling is required for this material by the Classification Packaging and labelling of Dangerous Substances Regulations 1984 and corresponding EEC directives.

Occupational Exposure Standard (OES) for dusts 10 mg/m³ (Total dust) or 4 mg/m³ (respirable dust)

16. Other Information

This data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.