

MATERIAL SAFETY DATA SHEET – BARITE

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1. IDENTIFICATION OF SUBSTANCE AND COMPANY	
Product	Barite Powder - Naturally occurring mineral, barium sulphate
Exempt from REACH registration (EC) 1907/2006, Article 2 § 7(b) and Annex V point 7	
Applications	Weighting agent, filler
Manufacturer	Le Mineraux LLP, Chennai 600001, India

COMPOSITION / INFORMATION ON INGREDIENTS

Chemical formula	BaSO ₄
Commodity Code	25111020
CAS NO	7727-43-7
EINECS NO	231-784-4

HAZARD IDENTIFICATION

Inert material	Not classified as hazardous to human health or the environment
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FIRST AID MEASURES

Ingestion	Not harmful. Rinse mouth thoroughly. Drink plenty of water. First aid not normally required.
Inhalation	General irritant only. Remove from exposure. If any discomfort persists get medical attention.
Skin contact	Non-irritant. Wash with water and soap.
Eye contact	General Irritant only. Promptly flush with water, lifting eyelids. If any discomfort persists get medical attention.

FIRE FIGHTING MEASURES

Barite is non-flammable. Use fire extinguisher suitable for surroundings. Above 1100°C decomposes and emits sulphur dioxide, fire-fighters should wear breathing apparatus.

ACCIDENTAL RELEASE MEASURES

Spillage	Vacuum or sweep-up wearing dust mask
Environmental precautions	None

HANDLING & STORAGE

COMPOSITION / INFORMATION ON INGREDIENTS

No special instruction required. Secondly, avoid handling that which creates dust. Packaging materials suitable are proper bags or Big Bags manufactured from 'Sift Proof' material.

EXPOSURE CONTENT / PERSONAL PROTECTION

Engineering measures	Prevent adequate ventilation to maintain dust free workplace
Hygiene measures	Wash with soap and water
Occupational Exposure: Exposure to dust	8 Hr TWA inhalable 10mg/m ³ respirable 4.0 mgm/m ³

EXPOSURE CONTENT / PERSONAL PROTECTION - Personal Protective Equipment

Respiratory System	Recommended to use an approved respirator if levels exceed Limits
Skin and body	Wear suitable protective clothing
Eyes	Wear suitable goggles in case of likely eye contact

PHYSICAL & CHEMICAL PROPERTIES	
Appearance	Free flowing powder
Colour	Various
Odour	Generally odourless
Melting Point	1580°C
pH	6-8'10% w/w aqueous slurry
Solubility	Insoluble in water
Explosion limit	Product is not explosive
Specific Gravity	4.1 – 4.3

STABILITY & REACTIVITY	
Stability	Stable
Condition to avoid	Avoid contact with Aluminium and Phosphorous
Hazardous Decomposition products	Evolves toxic fumes of SO ₂ above 1100°C

TOXICOLOGICAL INFORMATION	
TOXICITY	ipl-rat TDLO = 200 mg/kg
Oral	LD 50 rat> 20,000 mg/kg
Carcinogenicity	There is no evidence in either animals or humans
Mutagenicity/Reproductive toxicity	No evidence in animals or humans

COMPOSITION / INFORMATION ON INGREDIENTS

ECOLOGICAL INFORMATION

Presents no environmental hazard. A naturally occurring mineral. This material is on the PLONOR list for OSPAR.

DISPOSAL

Recover, reclaim or recycle if practical. Otherwise dispose of as a non-hazardous or inert waste if necessary in accordance with local national or regional rules.

TRANSPORT INFORMATION

Not classified as hazardous for transport under international regulations for the transport of dangerous goods (CHIP, MDG, IATA, ADR, RID)

REGULATORY INFORMATION

NOT CLASSIFIED

OTHER INFORMATION

The data given here is made in good faith and is based on current knowledge and experience. It is to the best of our knowledge true and accurate. However, recommendations and suggestions are made without guarantee as conditions of use are beyond our control. Further more no recommendations can necessarily be valid if use of the product is outside normal use or in conflict with patents covering its use.