

# Material Safety Data Sheet / Safety Data sheet

## Barium Sulphate

### Section 1: Chemical Product Identifier and Synonyms

Product Name: Barium Sulphate

UN Number: 1564

CAS Number: 7727-43-7

Synonym: Barium Sulphate

Chemical Formula: BaSO<sub>4</sub>

### Section 2: Composition and Information on Ingredients

Composition

Name	CAS Number:	% By Weight
Barium Sulphate	7727-43-7	>99

**Toxicology Data On Ingredients:** Barium Sulphate LD50: Not Available. LC50: Not Available

### Section 3: Hazards Identification

**Potential Acute Health Effects:**

Harmful if swallowed.

Harmful if inhaled.

May cause damage to organs through prolonged or repeated exposure.

**Potential Chronic Health Effects:**

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available.

### Section 4: First Aid Measures

**Eye Contact:**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if symptoms occur.

**Skin Contact:**

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur

**Inhalation:**

Move to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Immediate medical attention is required. If not breathing, give artificial respiration.

**Ingestion:**

Do not induce vomiting. Call a physician or Poison Control Center immediately.

## Section 5: Fire and Explosion Data

**Flammability of the Product:** Substance is nonflammable.

**Auto-Ignition Temperature:** Not available.

**Flash Points:** Not applicable.

**Flammable Limits:** Not applicable.

**Products of Combustion:** Not available.

**Fire Hazards in Presence of Various Substances:** Not applicable.

**Explosion Hazards in Presence of Various Substances:** Not available.

**Risks of explosion of the product in presence of mechanical impact:** Not available.

**Risks of explosion of the product in presence of static discharge:** Not available.

**Fire Fighting Media and Instructions:** Not applicable.

**Special Remarks on Fire Hazards:** Not available.

**Special Remarks on Explosion Hazards:** Not available.

## Section 6: Accidental Release Measures

**Small Spill:**

Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Keep people away from and upwind of spill/leak.

**Large Spill:**

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

## Section 7: Handling and Storage

**Precautions:**

Use only under a chemical fume hood. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Do not ingest.

**Storage:**

Keep containers tightly closed in a dry, cool and well-ventilated place.

## Section 8: Exposure Controls / Personal Protection

### **Engineering Controls:**

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation.

### **Personal Protection:**

Safety glasses. Gloves. Protective clothing. Dust production: dust mask with filter type P3.

### **Personal Protection in Case of a Large Spill:**

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

### **Exposure Limits:**

Consult local authorities for acceptable exposure limits.

## Section 9: Physical and Chemical Properties

**Physical state and appearance:** Solid.

**Odour:** Odourless.

**Taste:** Not available.

**Molecular Weight:** 233.4 g/mole

**Colour:** Light yellow.

**pH (1% soln/water):** Not available.

**Boiling Point:** 1580 °C

**Melting Point:** Not available.

**Critical Temperature:** Not available.

**Specific Gravity:** 4.4 (Water = 1)

**Vapour Pressure:** Not available.

**Vapour Density:** Not available.

**Volatility:** Not available.

**Odour Threshold:** Not available.

**Water/Oil Dist. Coeff.:** Not available.

**Ionicity (in Water):** Not available.

**Dispersion Properties:** Not available.

**Solubility:** Insoluble in water.

## Section 10: Stability and Reactivity Data

**Stability:** The product is stable under normal conditions.

**Instability Temperature:** Not available.

**Conditions of Instability:** Not available.

**Incompatibility with various substances:** Strong oxidizers.

**Corrosivity:** Not available.

**Special Remarks on Reactivity:** Not available.  
**Special Remarks on Corrosivity:** Not available.  
**Polymerization:** Hazardous polymerisation does not occur.

## Section 11: Toxicological Information

**Routes of Entry:** Inhalation; Skin and eye contact  
**Toxicity to Animals:** LD50: Not available. LC50: Not available.  
**Chronic Effects on Humans:** EXPOSURE TO HIGH CONCENTRATIONS: Dry/sore throat.  
Coughing.  
Redness of the eye tissue.  
**Other Toxic Effects on Humans:** Vomiting. Nausea. Abdominal pain. Blood in stool. Bleeding of the gastrointestinal tract. Increased salivation. Myasthenia. Cramps/uncontrolled muscular contractions. Paralysis. Disturbances of heart rate. High arterial pressure  
**Special Remarks on Toxicity to Animals:** Not available.  
**Special Remarks on Chronic Effects on Humans:** Not available.  
**Special Remarks on other Toxic Effects on Humans:** Not available.

## Section 12: Ecological Information

**Ecotoxicity:** Not classified as dangerous for the ozone layer  
**BOD5 and COD:** Not available.  
**Products of Biodegradation:** Not applicable.  
**Toxicity of the Products of Biodegradation:** Not available.  
**Special Remarks on the Products of Biodegradation:** Not available.

## Section 13: Disposal Information

**Waste Disposal:** Dispose of in accordance with local regulations

## Section 14: Transport Information

**DOT Classification:** Not regulated  
**Identification:** Barium Sulphate UN Number: UN1564 , Not regulated  
**Special Provisions for Transport:** Not available.

## Section 15: Regulatory Information

**Regulations:** Labelling according to Regulation (EC) No 1272/2008.

## Section 16: Other Information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials. The author will not be held liable for any damage or injury caused by this product and does not obviate the requirement for end users to carry out their own workplace and specific use risk assessment.

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