



Section 1. Product and Company Identification

**Product Name** Barium Sulfate  
**CAS Number** 7727-43-7

**Parchem - fine & specialty chemicals**  
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Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture**

**Classification of the substance or mixture:** The product is not classified hazardous according to the Regulation (EC) No 1272/2008 and GHS.

**GHS Label Elements**

**Pictograms:** N/A

**Signal word:** N/A

**Hazard and precautionary statements:** None

**Label elements:** No special labelling required

Section 3. Composition / Information on Ingredients

**Common Name** Barium Sulfate  
**Synonym(s)** Barium Sulfate Precipitated  
**Formula** BaSO<sub>4</sub>  
**CAS Number** 7727-43-7

Section 4. First Aid Measures

**Description of first aid measures**

**General indications:** No hazards which require special first aid measures.

**Inhalation:** Move to fresh air. Give symptomatic treatment as necessary.

**Skin contact:** Wash with soap and water.

**Eye contact:** Wash with water or neutral eyewash solution.

**Ingestion:** Do not induce vomiting. Give up to 200 ml water. In case of persistent symptoms, consult a doctor.

**Most important symptoms and effects, both acute and delayed:** N/A

**Indication of any immediate medical attention and special treatment needed:** N/A

Section 5. Firefighting Measures

**Extinguishing media:** No restrictions

**Special hazards arising from the substance or mixture:** The product itself does not burn. Product is inert, not flammable and incombustible.

**NFPA Ratings**

**Health:** 1

**Flammability:** 0

**Reactivity:** 0

Section 6. Accidental Release Measures

**Personal precautions, protective equipment, and emergency procedures:** Avoid dust formation. Ensure adequate ventilation.

**Environmental precautions:** Avoid dust dispersion to the environment. Prevent leakages from entering drains and ditches that lead to natural waterways.

**Methods and material for containment and cleaning up:** Use any suitable mechanical means (e.g. vacuum, sweeping), but avoid dusting during clean-up.

Section 7. Handling and Storage

**Precautions for safe handling:** No special measures

**Conditions for safe storage, including any incompatibilities**

**Fire Precautions:** The product is not flammable

**Storage conditions/packing material:** Store in original containers in a dry and cool area.

**Incompatible products:** No restrictions

Section 8. Exposure Controls / Personal Protection

**Control parameters**

| CAS-Nr.   | Substance Identification | Type             | Value               | Unit              |
|-----------|--------------------------|------------------|---------------------|-------------------|
| 7727-43-7 | Barium Sulfate           | Tel (UK)         | 4 (respirable dust) | mg/m <sup>3</sup> |
|           |                          |                  | 10 (total dust)     | mg/m <sup>3</sup> |
|           |                          | OSHA PEL (USA)   | 15 (total dust)     | mg/m <sup>3</sup> |
|           |                          |                  | 5 (respirable dust) | mg/m <sup>3</sup> |
|           |                          | ACGIH TLV(USA)   | 10                  | mg/m <sup>3</sup> |
|           |                          | Canada - Ontario | 10                  | mg/m <sup>3</sup> |
|           | Canada - Quebec          | 10               | mg/m <sup>3</sup>   |                   |

**Exposure controls:** Engineering measures: None required

**Personal Protection Equipment**

**Industrial hygiene measures:** Keep in clean conditions. Avoid dust formation

**Respiratory protection:** A respirator must be used if the dust concentration is likely to exceed the Occupational exposure limit. At higher concentrations wear particle filter DIN EN 143 - P2. or equivalent approved by NIOSH.

**Hand protection:** Prolonged exposure should be avoided by wearing suitable protective gloves and clothing.

**Eye protection:** The use of an approved dustproof goggles is recommended if the dust concentration is likely to exceed the Occupational exposure limit

**Skin protection:** Barium Sulfates are not irritant but as with all fine powders can absorb moisture and natural oils from the surface of the skin during prolonged exposure. Prolonged exposure should be avoided by wearing suitable protective gloves and clothing.

Section 9. Physical and Chemical Properties

**Information on basic physical and chemical properties**

**Appearance**

**Physical State:** Powder

**Color:** White

**Odor:** None

**Critical Data**

**Melting point or range:** > 1,350°C

**Boiling point or range:** Not applicable

**Flash point:** Not flammable

**Ignition temperature:** Not flammable

**Auto-ignition temperature:** Not flammable

**Oxidizing properties:** None

**Explosive properties:** No danger of explosion

**Explosivity or flammability limit in air:**

**Vapor pressure:** Not applicable

**Density:** Approx. 4,4 g/ml

**Solubility:** < 0.01 g/l

**pH Value:** Approx. 6

**Partition coefficient:** Not applicable

**Viscosity:** Not applicable

Section 10. Stability and Reactivity

**Reactivity:** No special reactivity known.

**Chemical Stability:** Stable under normal use conditions



**Possibility of hazardous reactions:** May react with strong reducing agents under heat (powdered aluminum, potassium metal, etc.)

**Conditions to avoid:** Thermal decomposition above >1300°C.

**Incompatible materials:** Strong reducing agents

**Hazardous decomposition products:** Sulfur oxides (SO<sub>x</sub>), BaO

#### Section 11. Toxicological Information

##### Information on toxicological effects

**Acute toxicity:** LD50 (rats, oral) > 15,000 mg/kg

**Irritation/corrosion:** Product is not irritating to eyes and skin

**Sensitization:** No sensitization known

**Chronic Toxicity:** No toxic effects known

#### Section 12. Ecological Information

##### Toxicity

**Aquatic Toxicity:** Not known

**Persistence and Degradability:** Methods for the determination of biodegradability are not applicable to inorganic substances.

**Bioaccumulative potential:** The product is practically insoluble in water and not biodegradable.

**Mobility in Soil:** No information

**Results of PBT and vPvB Assessment:** According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances. Barium sulfate is an inorganic substance, thus a PBT and vPvB assessment is not required.

#### Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

#### Section 14. Transport Information

**UN Number:** The product is not classified as a hazardous material according to the DOT, ADR/RID, IMDG, and IATA on the transport of dangerous or hazardous goods.

**UN proper shipping name:** N/A

**Transport hazard class(es):** N/A

**Packing group:** N/A

**Environmental hazards:** N/A

**Special precautions for user:** N/A

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** N/A



Section 15. Regulatory Information

**Safety, health and environmental regulations/legislation specific for the substance or mixture:** N/A

**National regulations**

SARA Title III Sec. 302/303

(Extremely Hazardous Substances): Not listed

SARA Title III Sec. 311/312 (40 CFR 370) Hazard Category: None

SARA Title III Sec. 313 (Toxic Chemicals Emissions Reporting): Not listed

CERCLA Hazardous Substance (40 CFR Part 302): Not listed

**National registrations**

EINECS: (European Inventory of Existing Commercial Chemical Substances) 231 784 4

ELINCS: (European List of Notified Chemical Substances) not listed

TSCA: (Toxic Substances Control Act (EPA-Inventory) 7727-43-7

AICS: (Australian Inventory of Chemical Substances) 7727-43-7

DSL: (Canadian Domestic Substances List) 7727-43-7

NDSL: (Canadian Non-Domestic Substances List) not listed

KECI: (Korean Existing Chemicals Inventory) KE 02092

PICCS: (Philippine Inventory of Chemicals and Chemical Substances) 523.4908

BAGT: (Giffliste des Bundesamts für Abfall und Gesundheitswesen der Schweiz) G1826gfk

METI: (Ministry of Economy, Trade and Industry - Japan) 1-89

SEPA: (State Environmental Protection Administration - China) 7727-43-7

IHSL (Proposed Israel Hazardous Substances List 2001) 31.1

**Chemical safety assessment:** The substance has undergone a safety assessment.

Section 16. Other Information

**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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