

# MATERIAL SAFETY DATA SHEET BARIUM NITRATE

### SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	:	Barium nitrate	LABORT FINE CHEM PVT LTD.	
CAS	:	10022-31-8	<b>Office:</b> 703-704 Icon Business Centre, Opp. Central Mall, Nr. Valentine Cinema, Dumas Road, Surat - 395007, (GUJARAT), INDIA.	
Synonym	:		Ph: 0091-261-2725761; 2725388 Fax: 0091-261-2725388	
Chemical Name	:	Barium nitrate		
Chemical formula	:	Ba(NO3)2	E Mail: <u>info@laboratorychemical.net</u> Website: <u>www.laboratorychemical.net</u>	
Molecular weight	:	261.35	Factory: Plot No. 320, G.I.D.C. Ichhapore Industrial Estate, Opp- ONGC, Taluka- Choryasi, District Surat, Gujarat., PIN 394510, India	

# SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

Composition:

Chemical Name	CAS #	% weight			
Barium nitrate	10022-31-8	100			
Toxicological Data on Ingredients: Barium nitrate: ORAL (ID50): Acute: 355 mg/kg [Rat]					

Toxicological Data on Ingredients: Barium nitrate: ORAL (LD50): Acute: 355 mg/kg [Rat].

# SECTION 3: HAZARDS IDENTIFICATION

#### **Potential Acute Health Effects:**

Extremely hazardous in case of ingestion. Very hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Prolonged exposure may result in skin burns and ulcerations. Over-exposure by inhalation may cause respiratory irritation. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

#### Potential Chronic Health Effects:

Extremely hazardous in case of ingestion. Very hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to kidneys, lungs, the nervous system. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

# SECTION 4: FIRST AID MEASURES

#### Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately. Skin Contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used.Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

#### Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

#### Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

#### Serious Inhalation:

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention. **Ingestion:** 

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

# SECTION 5: FIRE AND EXPLOSION DATA

Flammability of the Product: Non-flammable.

Auto-Ignition Temperature: Not applicable.

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:** 

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 RELEASES MEASURE

**Small Spill:** Use appropriate tools to put the spilled solid in a convenient waste disposal container. **Large Spill:** 

Oxidizing material. Stop leak if without risk. Avoid contact with a combustible material (wood, paper, oil, clothing...). Keep substance damp using water spray. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

### SECTION 7: HANDLING AND STORAGE

#### **Precautions:**

Keep away from heat. Keep away from sources of ignition. Keep away from combustible material.. Do not ingest. Do not breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

#### Storage:

Keep container tightly closed. Keep container in a cool, well-ventilated area. Separate from acids, alkalies, reducing agents and combustibles. See NFPA 43A, Code for the Storage of Liquid and Solid Oxidizers.

# **SECTION 8: PERSONAL PROTECTION**

#### **Engineering Controls:**

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

#### Personal Protection:

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

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#### 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:**

TWA: 0.5 Consult local authorities for acceptable exposure limits.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance: Solid. (Lustrous solid.) Odor: Odorless. Taste: Not available. Molecular Weight: 261.35 g/mole Color: White. pH (1% soln/water): Not available. Boiling Point: Decomposes. Melting Point: 590°C (1094°F) Critical Temperature: Not available. **Specific Gravity:** 3.24 (Water = 1) Vapor Pressure: Not applicable. Vapor Density: Not available. Volatility: Not available. Odor Threshold: Not available. Water/Oil Dist. Coeff.: Not available. Ionicity (in Water): Not available. Dispersion Properties: See solubility in water. Solubility: Partially soluble in cold water.

# SECTION 10: STABILITY AND REACTIVITY DATA

Stability: The product is stable.
Instability Temperature: Not available.
Conditions of Instability: Not available.
Incompatibility with various substances: Not available.
Corrosivity: Non-corrosive in presence of glass.
Special Remarks on Reactivity: Not available.
Special Remarks on Corrosivity: Not available.
Polymerization: Will not occur.

# SECTION 11: TOXICOLOGICAL INFORMATION

Routes of Entry: Eye contact. Inhalation. Ingestion.

Toxicity to Animals: Acute oral toxicity (LD50): 355 mg/kg [Rat].

Chronic Effects on Humans: Causes damage to the following organs: kidneys, lungs, the nervous system.

**Other Toxic Effects on Humans:** 

Extremely hazardous in case of ingestion. Very hazardous in case of skin contact (irritant), of inhalation.

Special Remarks on Toxicity to Animals: Not available.

**Special Remarks on Chronic Effects on Humans:** Excreted in maternal milk in animal. Passes through the placental barrier in human.

Special Remarks on other Toxic Effects on Humans: Not available.

# SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. **Toxicity of the Products of Biodegradation:** The products of degradation are more toxic. **Special Remarks on the Products of Biodegradation:** Not available.

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### SECTION 13: DISPOSAL CONSIDERATIONS

#### Waste Disposal:

### SECTION 14: TRANSPORT INFORMATION

**DOT Classification:** CLASS 5.1: Oxidizing material. **Identification:** : Barium Nitrate UNNA: UN1446 PG: II **Special Provisions for Transport:** Marine Pollutant

### SECTION 15: OTHER REGULATORY INFORMATION

Other Classifications: WHMIS (Canada): CLASS C: Oxidizing material. CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC). CLASS D-2B: Material causing other toxic effects (TOXIC). DSCL (EEC): R8- Contact with combustible material may cause fire. R22- Harmful if swallowed. R38- Irritating to skin. R41- Risk of serious damage to eyes. HMIS (U.S.A.): Health Hazard: 2 Fire Hazard: 0 Reactivity: 0 **Personal Protection:** E National Fire Protection Association (U.S.A.): Health: 2 Flammability: 0 Reactivity: 0 Specific hazard: **Protective Equipment:** Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

### **SECTION 16: OTHER INFORMATION**

#### **Product Use:**

Laboratory Reagent.

#### Disclaimer:

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