

Address: National industry, Pipodra GIDC, Surat-394110, Gujarat, India.

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**MATERIAL SAFETY DATA SHEET**

<b>Product Name</b>	<b>BARIUM NITRATE LR</b>
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**1. Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

**Trade name :** BARIUM NITRATE LR

**Product code :** B0027

**Identification of the product:** BARIUM NITRATE EXTRA PURE

**CAS No :** 10022-31-8

**1.2 Relevant identified uses of the substance or mixture and uses advised**

**againstUse:** Industrial. For professional use only.

**1.3 Details of the supplier of the safety data sheet**

**Company identification:** CYNOR

National industry, Pipodra GIDC, Surat-394110, Gujarat, India.

**Email:** cynorlaboratories@gmail.com **Mobile No.:** +91 8799070507

**2. Hazards identification -DSD**

**2.1 Classification of the substance or mixture**

**Classification EC 67/548 or EC 1999/45**

**Classification :**

Xn; R20

**Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)**

**Health hazards :** Acute toxicity, Inhalation - Category 4 - Warning (CLP :

Acute Tox. 4)H332

Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302

**2.2 Label element**

**Labelling EC 67/548 or EC 1999/45**

**Symbol(s) :** O : Oxidizing

Xn : Harmful



**R Phrase(s) :** R8 : Contact with combustible material may cause fire.R20 :

Harmful by inhalation.

R22 : Harmful if swallowed.

**S Phrase(s) :** S17 : Keep away from combustible material.

S28 : After contact with skin, wash immediately with

**Labelling Regulation EC 1272/2008 (CLP)**

**Hazard pictograms**



**Signal words :** Warning

**Hazard statements :** H302 : Harmful if swallowed.

H332 : Harmful if inhaled.

### **Precautionary statements**

- **Prevention** : P271: Use only outdoors or in a well-ventilated area. P261: Avoid breathing dust, fume, gas, mist, vapours, spray.  
P264: Wash thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.
- **Response** : P301+P312: IF SWALLOWED : Call a POISON CENTER or doctor if you feel unwell.  
P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.
- **Disposal considerations** : P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### **2.3 Other hazards**

**Other hazards** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

### **3. Composition/information on ingredients**

**Substance / Preparation:** Barium Nitrate

CAS No : 10022-31-8

Substance.

Contains no other components or impurities which will influence the classification of the product.

### **4. First aid measures**

#### **4.1 Description of first aid measures**

**Inhalation** : Assure fresh air breathing. Allow the victim to rest. Call a POISON CENTER or doctor if you feel unwell. Remove to fresh air and keep at rest in a position comfortable for breathing.

**Skin contact** : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

**Eye contact** : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

**Ingestion** : Obtain emergency medical attention. Call a POISON CENTER or doctor if you feel unwell. Do NOT induce vomiting. Rinse mouth.

#### **4.2 Most important symptoms and effects, both acute and delayed**

**Symptoms relating to use** : Danger of serious damage to health by prolonged exposure through inhalation.

Swallowing a small quantity of this material will result in serious health hazard.

#### **4.3 Indication of any immediate medical attention and special treatment needed**

**General information** : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

### **5. Fire-fighting measures**

#### **5.1 Extinguishing media**

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray.

Unsuitable extinguishing media : Do not use extinguishing media containing water.

Surrounding fires: Use water spray or fog for cooling exposed containers

## **5.2 Specific hazards arising from the substance or mixture**

**Hazardous combustion products** : Under fire conditions, hazardous fumes will be present.

## **5.3 Advice for fire-fighters**

**Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.

**Special procedures** : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

## **6. Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

**For emergency responders** : Equip cleanup crew with proper protection. Ventilate area.

**For non-emergency personnel** : Evacuate unnecessary personnel.

### **6.2 Environmental precautions**

**Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

### **6.3 Methods and material for containment and cleaning up**

**Methods for cleaning up** : On land, sweep or shovel into suitable containers. Minimize generation of dust.

### **6.4 Reference to other sections**

See section 8. Exposure controls/personal protection

## **7. Handling and storage**

### **7.1 Precautions for safe handling**

**Handling** : Use only outdoors or in a well-ventilated area. Avoid breathing dust, fume, gas, mist, vapours, spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.

**Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour.

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

**Storage** : Keep only in the original container in a cool, well ventilated place.

Keep container closed when not in use. Keep in fireproof place.

**Storage - away from** : Strong bases. Strong acids. Sources of ignition. Direct sunlight. Heat sources. Combustible material.

### **7.3 Specific end use(s)**

No additional information available

## **8. Exposure controls/personal protection**

### **8.1 Control parameter**

No additional information available

### **8.2 Exposure control**

**Personal protection** : Avoid all unnecessary exposure.

- **Respiratory protection** : In case of insufficient ventilation, wear suitable respiratory equipment.
- **Hand protection** : Wear protective gloves.
- **Eye protection** : Chemical goggles or safety glasses.

- **Others** : When using, do not eat, drink or smoke. Wear fire, flame resistant, retardant clothing.

## **9. Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

**Physical state at 20 °C** : Solid.

**Odour threshold** : No data available.

**pH value** : Not applicable.

**Melting point [°C]** : 592 °C

**Decomposition point [°C]** : N/A

**Critical temperature [°C]** : N/A

**Auto-ignition temperature [°C]** : N/A

**Flammability (solid, gas)** : N/A

**Flash point [°C]** : N/A

**Boiling point [°C]** : N/A

**Initial boiling point [°C]** : N/A

**Final boiling point [°C]** : N/A

**Evaporation rate** : N/A

**Vapour pressure [20°C]** : N/A

**Vapour pressure mm/Hg** : N/A

**Vapour density** : N/A

**Density [g/cm<sup>3</sup>]** : 3.23

**Relative density, gas (air=1)** : N/A

**Relative density, liquid (water=1)** : N/A

**Solubility in water [% weight]** : 8.7 g/100 g water

**Solubility in water** : N/A

**Log Pow octanol / water at 20°C** : No data available.

**Solubility** : N/A

**Viscosity at 40°C [mm<sup>2</sup>/s]** : N/A

### **9.2 Other information**

**Explosive properties** : N/A

**Explosion limits - upper [%]** : N/A

**Explosion limits - lower [%]** : N/A

**Oxidising properties** : N/A

## **10. Stability and reactivity**

### **10.1 Reactivity**

No additional information available

### **10.2 Chemical stability**

Stable under normal conditions.

### **10.3 Possibility of hazardous reactions**

No additional information available

### **10.4 Conditions to avoid**

Direct sunlight. Extremely high or low temperatures.

### **10.5 Incompatible materials**

Strong acids. Strong bases.

**10.6 Hazardous decomposition products**

Fumes. Carbon monoxide. Carbon dioxide

**11. Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity**

- **Inhalation** : Harmful if inhaled.
- **Dermal** : Based on available data, the classification criteria are not met.
- **Ingestion** : Harmful if swallowed.
- Corrosion** : Based on available data, the classification criteria are not met.
- Irritation** : Based on available data, the classification criteria are not met.
- Sensitization** : Based on available data, the classification criteria are not met.
- Mutagenicity** : Based on available data, the classification criteria are not met.
- Carcinogenicity** : Based on available data, the classification criteria are not met.
- Toxic for reproduction** : Based on available data, the classification criteria are not met.
- STOT-single exposure** : Based on available data, the classification criteria are not met.
- STOT-repeated exposure** : Based on available data, the classification criteria are not met.
- Aspiration hazard** : Based on available data, the classification criteria are not met.

**12. Ecological information**

**12.1 Toxicity**

No additional information available

**12.2 Persistence – degradability**

Biodegradable

**12.3 Bioaccumulative potential**

No additional information available

**12.4 Mobility in soil**

No additional information available

**12.5 Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

**12.6 Other adverse effects**

Avoid release to the environment

**13. Disposal considerations**

**13.1 Waste treatment methods**

**General** : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Hazardous waste due to potential risk of explosion. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

**14. Transport information**

**14.1 Land transport (ADR-RID)**



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**Proper shipping name** : BARIUM NITRATE

UN N° : 1446

H.I. nr : 56

ADR - Class : 5.1

Labelling - Transport : 5.1 : Oxidizing substances. 6.1 : Toxic substances.

ADR - Classification code : OT2

ADR - Group : II

ADR - Packing instructions : P002

ADR - Limited Quantity : 1 KG

ADR - Tunnel code : E : Passage forbidden through tunnels of category E.

#### 14.2 Sea transport (IMDG) [English only]

**Proper shipping name** : BARIUM NITRATE

UN N° : 1446

IMO-IMDG - Class or division : 5.1 : Oxidizing substances. ( 6.1 : Toxic substances. )

IMO-IMDG - Packing group : II

IMO-IMDG - Packing instructions : P002

IMO-IMDG - Limited quantities : 1 kg

IMO-IMDG- Marine pollution :No

EMS-Nr : F-A-S-Q

#### 14.3 Air transport (ICAO-IATA) [English only]

**Proper shipping name** : BARIUM NITRATE.

UN N° : 1446

IATA - Class or division : 5.1 : Oxidizing substances. ( 6.1 : Toxic substances. )

IATA - Packing group : II

IATA - Passenger and Cargo Aircraft : ALLOWED

- Passenger and Cargo - Packing : 558

instruction

- Passenger and Cargo - Maximum : 5 kg

Quantity/Packing

IATA - Cargo only : ALLOWED

- Cargo only - Packing instruction : 562

- Cargo only - Maximum Quantity/ : 25 kg

Packing

IATA - Limited Quantites : 1 kg

ERG-Nr:5P

### 15. Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**Safety, health and environmental** : Ensure all national/local regulations are observed.

**regulations/legislation specific for the substance or mixture**

**REACH Restrictions - Annex XVII** : The components of this product are not subject to restrictions.

**REACH Authorisation - Annex XIV** : The components of this product are not subject to authorization.

#### 15.2 Chemical safety assessment



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No additional information available

#### **16. Other information**

**Abbreviations and acronyms** : PBT: persistent, bioaccumulative and toxic.vPvB: very persistent and very bioaccumulative

**Sources of key data used** : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

**Further information** : None.

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#### **End of document**

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