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**MATERIAL SAFETY DATA SHEET (MSDS)**
**BARIUM CHLORIDE LR (DIHYDRATED)**
**1. Identification of the substance/mixture and of the company/undertaking**
**1.1. Product identifier**

Trade name : BARIUM CHLORIDE LR (DIHYDRATED)

Product code : B0035800500

Identification of the product : BARIUM CHLORIDE DIHYDRATE  
 CAS No :10326-27-9

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

Use : Industrial. For professional use only.

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

Company identification : SUVCHEM  
 Chaitanya Tower, 2nd Floor, Office # 206,  
 Siddharth Nagar, S.V. Road,  
 Goregaon (West), Mumbai - 400062,  
 Maharashtra, India.  
 Contact: +91 22 28725393 / 94 / 95  
 Email ID: info@suvchem.com/care@suvchem.com

**1.4. Emergency telephone number**

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [ Office hours ]

**2. Hazards identification -DSD**
**2.1. Classification of the substance or mixture**
**Classification EC 67/548 or EC 1999/45**

Classification : T; R25  
 Xn; R20

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

Health hazards : Acute toxicity, Oral - Category 3 - Danger (CLP : Acute Tox. 3) H301  
 Acute toxicity, Inhalation - Category 4 - Warning (CLP : Acute Tox. 4) H332

**2.2. Label elements**
**Labelling EC 67/548 or EC 1999/45**

**MATERIAL SAFETY DATA SHEET (MSDS)**
**BARIUM CHLORIDE LR (DIHYDRATED)**
**2. Hazards identification -DSD (continued)**

Symbol(s)



Symbol(s)

: T : Toxic

R Phrase(s)

: R20 : Harmful by inhalation.

R25 : Toxic if swallowed.

S Phrase(s)

: S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).

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

Hazard pictograms



Signal words

: Danger

Hazard statements

: H301 : Toxic 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+P310: IF SWALLOWED : Immediately call a POISON CENTER or doctor.

P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.

## • Storage

: P405: Store locked up.

## • 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 CHLORIDE DIHYDRATE AR/ACS

CAS No : 10326-27-9

Substance.

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

**MATERIAL SAFETY DATA SHEET (MSDS)**
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**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	: Rinse mouth. Do NOT induce vomiting. Specific treatment (see on this label). Immediately call a POISON CENTER or doctor.

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

Symptoms relating to use	: Swallowing a small quantity of this material will result in serious health hazard. Danger of serious damage to health by prolonged exposure through inhalation.
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**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).
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**5. Fire-fighting measures**
**5.1. Extinguishing media**

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
Surrounding fires	: Use water spray or fog for cooling exposed containers.

**5.2. Special hazards arising from the substance or mixture**

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

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**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**

**Clean up methods** : On land, sweep or shovel into suitable containers. Minimize generation of dust.  
Store away from other materials.

**6.4. Reference to other sections**

See section 8. Exposure controls/personal protection

**7. Handling and storage**
**7.1. Precautions for safe handling**

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

**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.

**Storage - away from** : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

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

**Specific end use(s)** : None.

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

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**8. Exposure controls/personal protection (continued)**

<b>Personal protection</b>	: Avoid all unnecessary exposure.
• <b>Respiratory protection</b>	: In case of insufficient ventilation, wear suitable respiratory equipment.
• <b>Hand protection</b>	: Wear protective gloves.
• <b>Eye protection</b>	: Chemical goggles or safety glasses.
• <b>Others</b>	: When using, do not eat, drink or smoke.

**8.2. Control parameters**

<b>Occupational Exposure Limits</b>	: No data available.
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**9. Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

<b>Physical state at 20 °C</b>	: Solid.
<b>Colour</b>	: White powder
<b>Odour</b>	: Odorless
<b>Odour threshold</b>	: No data available.
<b>pH value</b>	: Not applicable.
<b>Melting point [°C]</b>	: 9630C
<b>Decomposition point [°C]</b>	: N/A
<b>Critical temperature [°C]</b>	: N/A
<b>Auto-ignition temperature [°C]</b>	: N/A
<b>Flammability (solid, gas)</b>	: N/A
<b>Flash point [°C]</b>	: N/A
<b>Boiling point [°C]</b>	: 1560°C
<b>Initial boiling point [°C]</b>	: N/A
<b>Final boiling point [°C]</b>	: N/A
<b>Evaporation rate</b>	: N/A
<b>Vapour pressure [20°C]</b>	: N/A
<b>Vapour pressure mm/Hg</b>	: N/A
<b>Vapour density</b>	: N/A
<b>Density [g/cm3]</b>	: 3,86
<b>Relative density, gas (air=1)</b>	: N/A
<b>Relative density, liquid (water=1)</b>	: N/A
<b>Solubility in water [% weight]</b>	: 31 g/100 g water @ 0
<b>Solubility in water</b>	: N/A
<b>Log Pow octanol / water at 20°C</b>	: No data available.
<b>Solubility</b>	: 5 - 8 at 50 g/l at 2

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**9. Physical and chemical properties (continued)**

 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 : No data available.

**10. Stability and reactivity**
**10.1. Reactivity**

Reactivity : Not established.

**10.2. Chemical stability**

Chemical stability : Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

Hazardous reactions : Not established.

**10.4. Conditions to avoid**

Conditions to avoid : Direct sunlight. Extremely high or low temperatures.

**10.5. Incompatible materials**

Materials to avoid : Strong acids. Strong bases.

**10.6. Hazardous decomposition products**

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 : Toxic if swallowed.

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**11. Toxicological information (continued)**

<b>Corrosion</b>	: Based on available data, the classification criteria are not met.
<b>Irritation</b>	: Based on available data, the classification criteria are not met.
<b>Sensitization</b>	: Based on available data, the classification criteria are not met.
<b>Mutagenicity</b>	: Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	: Based on available data, the classification criteria are not met.
<b>Toxic for reproduction</b>	: Based on available data, the classification criteria are not met.
<b>STOT-single exposure</b>	: Based on available data, the classification criteria are not met.
<b>STOT-repeated exposure</b>	: Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	: Based on available data, the classification criteria are not met.

**12. Ecological information**
**12.1. Toxicity**

**Toxicity information** : Not established.

**12.2. Persistence - degradability**

**Persistence - degradability** : Biodegradable.

**12.3. Bioaccumulative potential**

**Bioaccumulative potential** : Not established.

**12.4. Mobility in soil**

**Mobility in soil** : Not established.

**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**

**Environmental precautions** : 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.  
 Dispose of this material and its container to hazardous or special waste collection

**MATERIAL SAFETY DATA SHEET (MSDS)**
**BARIUM CHLORIDE LR (DIHYDRATED)**
**13. Disposal considerations (continued)**

Special precautions : point, in accordance with local, regional, national and/or international regulation.  
 : Hazardous waste due to toxicity.

**14. Transport information**
**14.1. Land transport (ADR-RID)**

Proper shipping name : BARIUM COMPOUND, N.O.S.  
 UN N° : 1564  
 H.I. nr : 60  
 ADR - Class : 6.1  
 Labelling - Transport : 6.1 : Toxic substances.



ADR - Classification code : T5  
 T5  
 ADR - Group : III  
 ADR - Packing instructions : P002 R001 LP002  
 ADR - Limited Quantity : 5 KG  
 ADR - Tunnel code



: E : Passage forbidden through tunnels of category E.

**14.2. Sea transport (IMDG) [English only]**

Proper shipping name : BARIUM COMPOUND, N.O.S.  
 UN N° : 1564  
 IMO-IMDG - Class or division : 6.1 : Toxic substances.  
 IMO-IMDG - Packing group : III  
 IMO-IMDG - Packing instructions : P002 LP02  
 IMO-IMDG - Limited quantities : 5 kg  
 IMO-IMDG - Marine pollution : Yes  
 EMS-Nr : F-A S-A

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



**MATERIAL SAFETY DATA SHEET (MSDS)**
**BARIUM CHLORIDE LR (DIHYDRATED)**
**14. Transport information (continued)**

Proper shipping name	: BARIUM COMPOUND, N.O.S.
UN N°	: 1564
IATA - Class or division	: 6.1 : Toxic substances.
IATA - Packing group	: III
IATA - Passenger and Cargo Aircraft	: ALLOWED
- Passenger and Cargo - Packing instruction	: 670
- Passenger and Cargo - Maximum Quantity/Packing	: 100 kg
IATA - Cargo only	: ALLOWED
- Cargo only - Packing instruction	: 677
- Cargo only - Maximum Quantity/Packing	: 200 kg
IATA - Limited Quantities	: 10 kg
ERG-Nr	: 6L

**15. Regulatory information**
**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Safety, health and environmental regulations/legislation specific for the substance or mixture	: Ensure all national/local regulations are observed.
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**

Chemical Safety Assessment	: It has not been carried out.
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**16. Other information**

Revision	: Revision - See : *
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.

**MATERIAL SAFETY DATA SHEET (MSDS)**

**BARIUM CHLORIDE LR (DIHYDRATED)**

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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