

# Material Safety Data Sheet



**BARIUM CHLORIDE (DIHYDRATED) LR**

VERSION : 05  
REVISION DATE : 14/06/2025  
EFFECTIVE DATE : 16/06/2025

**Product Code : 12540**

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## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Trade name : **BARIUM CHLORIDE (DIHYDRATED) LR**  
Product code : 12540  
Identification of the product : BARIUM CHLORIDE (DIHYDRATED) LR  
CAS No : 10326-27-9  
EC Index-No. : 056-004-00-8  
EC No. : 233-788-1  
Synonyms : Barium dichloride Dihydrate, Barium muriate

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

Identified uses : Laboratory chemicals, Manufacture of substances

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

**Company identification**  
MOLYCHEM INDIA LLP  
Office: Maker Tower 'E', 41-A2, 4th Floor, Above Maker Arcade, Cuffe Parade, Mumbai 400 005 (INDIA)  
Tel: +91 22 4066 8111, 2205 7772 .  
Email : [info@molychem.net](mailto:info@molychem.net)  
Works: Plot No. B/9, Badlapur M.I.D.C.,  
OPP.Shobhavat Textile Co., Kulgaon, Badlapur (E),  
Dist.-Thane-421 503.

### 1.4. Emergency telephone number

Emergency number : +91 22 4066 8111 (10:00am - 6:00 pm)

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Acute toxicity (oral), Category 3 H301  
Acute toxicity (inhal.), Category 4 H332

Full text of H- and EUH-statements: see section 16

**Adverse physicochemical, human health and environmental effects**

Toxic if swallowed. Harmful if inhaled.

### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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Hazard pictograms (CLP)



Signal word (CLP)

Hazard statements (CLP)

Precautionary statements (CLP)

GHS06

: Danger

: H301 - Toxic if swallowed

H332 - Harmful if inhaled.

: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 - Wash hands, forearms and face thoroughly after handling

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

## 2.3. Other hazards

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

## 3. Composition/information on ingredients

### 3.1. Substances

Name : BARIUM CHLORIDE (DIHYDRATED) LR

CAS-No : 10326-27-9

### 3.2. Mixtures

Not applicable

## 4. First aid measures

### 4.1. Description of first aid measures

First-aid measures general

: Call a physician immediately

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.

First-aid measures after skin contact

: Wash with plenty of water/.... Get immediate medical advice/attention. Wash skin with plenty of water.

First-aid measures after eye contact

: If eye irritation persists: Get medical advice/attention. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

First-aid measures after ingestion

: Rinse mouth. Obtain emergency medical attention. Call a physician immediately.

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

|                                     |                                                                                                                           |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects after inhalation   | : Toxic if inhaled                                                                                                        |
| Symptoms/effects after skin contact | : None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing. |
| Symptoms/effects after eye contact  | : None under normal conditions. Dust from this product may cause eye irritation.                                          |
| Symptoms/effects after ingestion    | : Toxic if swallowed.                                                                                                     |

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

Treat symptomatically.

## 5. Firefighting measures

### 5.1. Extinguishing media

|                                |                                                  |
|--------------------------------|--------------------------------------------------|
| Suitable extinguishing media   | : Carbon dioxide. Dry powder. Foam. Water spray. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.               |

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

|                                                  |                                |
|--------------------------------------------------|--------------------------------|
| Fire hazard                                      | : No fire hazard.              |
| Explosion hazard                                 | : No direct explosion hazard.  |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

### 5.3. Advice for firefighters

|                                |                                                                                                                                                      |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.             |

## 6. Accidental release measures

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

|                  |                                                                                                             |
|------------------|-------------------------------------------------------------------------------------------------------------|
| General measures | : Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage. |
|------------------|-------------------------------------------------------------------------------------------------------------|

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## 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel.  
Avoid breathing dust/fume/gas/mist/vapours/spray

## 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Ventilate area. Evacuate unnecessary personnel.

## 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Mechanically recover the product. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers.  
Other information : Dispose of materials or solid residues at an authorized site.

## 6.4. Reference to other sections

For further information refer to section 13.

## 7. Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapours. Avoid dust formation. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray.  
Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Always wash hands after handling the product.

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

Technical measures : Keep in a cool, well-ventilated place away from heat.  
Storage conditions : Store in a well-ventilated place. Keep container tightly closed. Store locked up  
Storage away from : Air contact. Direct sunlight. Moisture

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## 7.3. Specific end use(s)

No additional information available

## 8. Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

|                        |                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------|
| Eye protection         | : Chemical goggles or safety glasses                                                      |
| Hand protection        | : Wear protective gloves                                                                  |
| Skin protection        | : Wear suitable protective clothing                                                       |
| Respiratory protection | : Wear appropriate mask. [In case of inadequate ventilation] wear respiratory protection. |
| Thermal hazards        | : No additional information available                                                     |

#### 8.2.3. Environmental exposure controls

Avoid release to the environment

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                |                                   |
|----------------|-----------------------------------|
| Physical state | : Solid                           |
| Appearance     | : crystals or crystalline powder. |
| Molecular mass | : 244.28 g/mol                    |
| Colour         | : Colourless or white             |

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|                                  |                                          |
|----------------------------------|------------------------------------------|
| Odour                            | : Odourless.                             |
| Odour threshold                  | : Not available                          |
| pH                               | : 5.0 - 8.0                              |
| Melting point                    | : 960 °C                                 |
| Freezing point                   | : Not applicable                         |
| Boiling point                    | : 1560 °C                                |
| Flash point                      | : Not applicable                         |
| Auto-ignition temperature        | : Not applicable                         |
| Decomposition temperature        | : Not available                          |
| Flammability (solid, gas)        | : Non flammable.                         |
| Vapour pressure                  | : Not available                          |
| Relative vapour density at 20 °C | : Not applicable                         |
| Relative density                 | : Not available                          |
| Density                          | : 3.0979 g/cm                            |
| Solubility                       | : Water: 35.8 g/100ml at 20 °C - soluble |
| Viscosity, kinematic             | : Not applicable                         |
| Explosive limits                 | : Not applicable                         |

## 9.2. Other information

No additional information available

## 10. Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Air contact. Direct sunlight. Moisture.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. Toxicological information

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## 11.1. Information on toxicological effects

|                                   |                       |
|-----------------------------------|-----------------------|
| Acute toxicity (oral)             | : Toxic if swallowed. |
| Acute toxicity (dermal)           | : Not classified      |
| Acute toxicity (inhalation)       | : Harmful if inhaled. |
| Skin corrosion/irritation         | : Not classified      |
| Additional information            | : Not classified      |
| Serious eye damage/irritation     | : Not classified      |
| Respiratory or skin sensitisation | : Not classified      |
| Germ cell mutagenicity            | : Not classified      |
| Carcinogenicity                   | : Not classified      |
| Reproductive toxicity             | : Not classified      |
| STOT-single exposure              | : Not classified      |
| STOT-repeated exposure            | : Not classified      |
| Aspiration hazard                 | : Not classified      |

## 12. Ecological information

### 12.1. Toxicity

|                                                           |                                                                                                                         |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Ecology - general                                         | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified                                                                                                        |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified                                                                                                        |

### 12.2. Persistence and degradability

No additional information available

### 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

No additional information available

### 12.6 Other adverse effects

No additional information available

## 13. Disposal considerations

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## 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Disposal must be done according to official regulations.

Additional information : Do not re-use empty containers.

## 14. Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

### 14.1. UN number

UN-No. (ADR) : UN 1564  
UN-No. (IMDG) : UN 1564  
UN-No. (IATA) : UN 1564  
UN-No. (ADN) : UN 1564  
UN-No. (RID) : UN 1564

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : BARIUM COMPOUND, N.O.S.  
Proper Shipping Name (IMDG) : BARIUM COMPOUND, N.O.S.  
Proper Shipping Name (IATA) : Barium compound, n.o.s.  
Proper Shipping Name (ADN) : BARIUM COMPOUND, N.O.S.  
Proper Shipping Name (RID) : BARIUM COMPOUND, N.O.S.  
Transport document description (ADR) : UN 1564 BARIUM COMPOUND, N.O.S. (BARIUM CHLORIDE DIHYDRATE), 6.1, III, (E)  
Transport document description (IMDG) : UN 1564 BARIUM COMPOUND, N.O.S., 6.1, III  
Transport document description (IATA) : UN 1564 Barium compound, n.o.s. (BARIUM CHLORIDE DIHYDRATE), 6.1, III  
Transport document description (ADN) : UN 1564 BARIUM COMPOUND, N.O.S., 6.1, III  
Transport document description (RID) : UN 1564 BARIUM COMPOUND, N.O.S., 6.1, III

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : 6.1  
Danger labels (ADR) : 6.1

#### IMDG

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Transport hazard class(es) (IMDG) : 6.1

Danger labels (IMDG) : 6.1

## **IATA**

Transport hazard class(es) (IATA) : 6.1

Danger labels (IATA) : 6.1

## **ADN**

Transport hazard class(es) (ADN) : 6.1

Danger labels (ADN) : 6.1

## **RID**

Transport hazard class(es) (RID) : 6.1

Danger labels (RID) : 6.1

### **14.4. Packing group**

Packing group (ADR) : III

Packing group (IMDG) : III

Packing group (IATA) : III

Packing group (ADN) : III

Packing group (RID) : III

### **14.5. Environmental hazards**

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

### **14.6. Special precautions for user**

#### **Overland transport**

Classification code (ADR) : T5

Limited quantities (ADR) : 5kg

Excepted quantities (ADR) : E1

Packing instructions (ADR) : P002, IBC08, LP02, R001

Mixed packing provisions (ADR) : MP10

Portable tank and bulk container

instructions (ADR) : T1

Portable tank and bulk container special

provisions (ADR) : TP33

Tank code (ADR) : SGAH, L4BH

Vehicle for tank carriage : AT

Transport category (ADR) : 2

Special provisions for carriage - Operation (ADR) : S9

Hazard identification number (Kemler No.) : 60

Tunnel restriction code (ADR) : E

EAC code : 2Z

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## Transport by sea

Limited quantities (IMDG) : 5 kg  
Excepted quantities (IMDG) : E1  
Packing instructions (IMDG) : P002, LP02  
IBC packing instructions (IMDG) : IBC08  
Tank instructions (IMDG) : T1  
Tank special provisions (IMDG) : TP33  
EmS-No. (Fire) : F-A  
EmS-No. (Spillage) : S-A  
Stowage category (IMDG) : A  
MFAG-No : 154

## Air transport

PCA Excepted quantities (IATA) : E1  
PCA Limited quantities (IATA) : Y645  
PCA limited quantity max net quantity (IATA) : 10kg  
PCA packing instructions (IATA) : 670  
PCA max net quantity (IATA) : 100kg  
CAO packing instructions (IATA) : 677  
CAO max net quantity (IATA) : 200kg  
ERG code (IATA) : 6L

## Inland waterway transport

Classification code (ADN) : T5  
Limited quantities (ADN) : 5 kg  
Excepted quantities (ADN) : E1  
Equipment required (ADN) : PP, EP  
Number of blue cones/lights (ADN) : 0

## Rail transport

Classification code (RID) : T5  
Limited quantities (RID) : 5kg  
Excepted quantities (RID) : E1  
Packing instructions (RID) : P002, IBC08, LP02, R001  
Mixed packing provisions (RID) : MP10  
Portable tank and bulk container instructions (RID) : T1  
Portable tank and bulk container special provisions (RID) : TP33  
Tank codes for RID tanks (RID) : SGAH, L4BH  
Transport category (RID) : 2  
Colis express (express parcels) (RID) : CE11

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Hazard identification number (RID) : 60

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## 15. Regulatory information

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

#### 15.1.1 EU-Regulations

Not listed on REACH Annex XVII

Not listed on REACH Annex XIV (Authorisation List)

Not listed on the REACH Candidate List

Not listed on the PIC list (Regulation EU 649/2012)

Not listed on the POP list (Regulation EU 2019/1021)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

##### Germany

Water hazard class (WGK)

: Not classified according to Regulation Governing Systems for Handling Substances Hazardous to Waters (AwSV).

Hazardous Incident Ordinance (12. BImSchV)

: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

##### Netherlands

SZW-lijst van kankerverwekkende stoffen

: The substance is not listed

SZW-lijst van mutagene stoffen

: The substance is not listed

NIET-limitatieve lijst van voor de voortplanting

: The substance is not listed

SZW-lijst van reprotoxische stoffen – Borstvoeding

: The substance is not listed

SZW-lijst van reprotoxische stoffen –

: The substance is not listed

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen –

: The substance is not listed

Ontwikkeling

##### Denmark

Danish National Regulations

: Young people below the age of 18 years are not allowed to use the product

## MOLYCHEM INDIA LLP

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Works : Unit I - Plot No. B/9, Unit II - Plot No. B/11, Badlapur M.I.D.C., Opp. Shobhavat Textile Co., Kulgaon, Badlapur (E), Dist.-Thane-421 503.

•ISO 9001:2015 • ISO 14001: 2015 • ISO 45001:2018 • WHO-GMP Certified • MSME Registered • CAA Registered

# Material Safety Data Sheet



**BARIUM CHLORIDE (DIHYDRATED) LR**

VERSION : 05  
REVISION DATE : 14/06/2025  
EFFECTIVE DATE : 16/06/2025

**Product Code : 12540**

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## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## 16. Other information

### Abbreviations and acronyms

|        |                                                                                                 |
|--------|-------------------------------------------------------------------------------------------------|
| ADN    | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR    | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE    | Acute Toxicity Estimate                                                                         |
| BCF    | Bioconcentration factor                                                                         |
| BLV    | Biological limit value                                                                          |
| BOD    | Biochemical oxygen demand                                                                       |
| COD    | Chemical oxygen demand                                                                          |
| COD    | Chemical oxygen demand                                                                          |
| DMEL   | Derived Minimal Effect level                                                                    |
| DNEL   | Derived-No Effect Level                                                                         |
| EC-No. | European Community number                                                                       |
| EC50   | Median effective concentration                                                                  |
| EN     | European Standard                                                                               |
| IARC   | International Agency for Research on Cancer                                                     |
| IATA   | International Air Transport Association                                                         |
| IMDG   | International Maritime Dangerous Goods                                                          |
| LC50   | Median lethal concentration                                                                     |
| LD50   | Median lethal dose                                                                              |
| LOAEL  | Lowest Observed Adverse Effect Level                                                            |
| NOAEC  | No-Observed Adverse Effect Concentration                                                        |
| NOAEL  | No-Observed Adverse Effect Level                                                                |
| NOEC   | No-Observed Effect Concentration                                                                |
| OECD   | Organisation for Economic Co-operation and Development                                          |
| OEL    | Occupational Exposure Limit                                                                     |
| PBT    | Persistent Bioaccumulative Toxic                                                                |
| PNEC   | Predicted No-Effect Concentration                                                               |
| RID    | Regulations concerning the International Carriage of Dangerous Goods by Rail                    |
| SDS    | Safety Data Sheet                                                                               |
| STP    | Sewage treatment plant                                                                          |
| ThOD   | Theoretical oxygen demand (ThOD)                                                                |

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|                                           |                                                                        |
|-------------------------------------------|------------------------------------------------------------------------|
| TLM                                       | Median Tolerance Limit                                                 |
| VOC                                       | Volatile Organic Compounds                                             |
| CAS-No.                                   | Chemical Abstract Service number                                       |
| N.O.S.                                    | Not Otherwise Specified                                                |
| vPvB                                      | Very Persistent and Very Bioaccumulative                               |
| ED                                        | Endocrine disrupting properties                                        |
|                                           |                                                                        |
| <b>Full text of H- and EUH-statements</b> |                                                                        |
| Eye Irrit. 2                              | Serious eye damage/eye irritation, Category 2                          |
| Flam. Liq. 2                              | Flammable liquids, Category 2                                          |
| STOT SE 3                                 | Specific target organ toxicity — Single exposure, Category 3, Narcosis |
| H225                                      | Highly flammable liquid and vapour.                                    |
| H319                                      | Causes serious eye irritation.                                         |
| H336                                      | May cause drowsiness or dizziness.                                     |
| EUH066                                    | Repeated exposure may cause skin dryness or cracking.                  |

Safety Data Sheet (SDS), EU This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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