Identification of the substances/ mixture and of the company/ undertaking

1.1 Product Identifiers

Product Number: GRM290
Product Name: Barium chloride dihydrate, Hi-LR™
CAS No.: 10326-27-9
Index-No: 056-004-00-8
EC No.: 233-788-1

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

1.2.1 Relevant identified uses

Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Produced by: HiMedia Laboratories Private Limited
Address: 23, Vadhani Industrial Estate, LBS Marg, Ghatkopar (W), Mumbai - 400 086 India
Tel. No.: +91-22-2500 0970, +91-22-2500 1607
Fax No.: +91-22-25002468
Mail Id: info@himedialabs.com
Website: www.himedialabs.com

1.4 Emergency Tel. No.

Emergency Tel. No.: Please contact the regional HiMedia representation in your country

2 Hazards Identification

2.1 Classification of the substance or mixture

CLP Classification-Regulation (EC) No. 1272/2008[EU-GHS/CLP]
Acute toxicity, Oral, (Category 3), H301
Acute toxicity, Inhaled, (Category 4), H332

2.2 Label elements

Labeling according to Regulation (EC) No.1272/2008

Pictogram
Signal word: Danger
Hazard Statement(s)
H301: Toxic if swallowed
H332: Harmful if inhaled
Precautionary Statement(s)
P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

2.3 Other Hazards

none
3 Composition/Information On Ingredients

3.1 Substances
Molecular Formula : \( BaCl_2 \cdot 2H_2O \)
Molecular Weight : 244.26
CAS No. : 10326-27-9
Index-No : 056-004-00-8
EC No. : 233-788-1

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barium chloride dihydrate, Hi-LR™</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&lt;= 100%</td>
</tr>
<tr>
<td>CAS No. : 10326-27-9</td>
<td>Acute Tox.oral. 3; Acute Tox.inhal. 4</td>
<td></td>
</tr>
<tr>
<td>EC No. : 233-788-1</td>
<td>H301; H332</td>
<td></td>
</tr>
<tr>
<td>Index-No : 056-004-00-8</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For the full text of the H-Statements and classification mentioned in this Section, see Section 16

4 First Aid Measures
4.1 Description of first aid measures
General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash with plenty of soap and water. Consult a physician.

In case of eye contact
Rinse immediately with plenty of water for at least 15 minutes. Consult a physician.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

4.3 Indication of immediate medical attention and special treatment needed
No data available

5 Fire Fighting Measures
5.1 Extinguishing media
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media
No data available.

5.2 Special hazards arising from the substance or mixture
Hydrogen chloride gas, Barium oxide
5.3 **Precautions for fire-fighters**  
Wear self contained breathing apparatus for fire fighting if necessary

5.4 **Further information**  
No data available

---

6 **Accidental Release Measures**

6.1 **Personal precautions, protective equipment and emergency procedures**  
Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.2 **Environmental precautions**  
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into environment must be avoided.

6.3 **Methods and materials for containment and cleaning up**  
Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 **Reference to other sections**  
For disposal see Section 13.

---

7 **Handling and Storage**

7.1 **Precautions for safe handling**  
Avoid contact with skin and eyes. Avoid inhalation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2

7.2 **Conditions for safe storage, including any incompatibilities**  
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

*Recommended Storage Temperature*: Below 30°C

7.3 **Specific end uses**  
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

---

8 **Exposure Controls/Personal Protection**

8.1 **Control parameters**  
Components with workplace control parameters

8.2 **Exposure controls**

*Appropriate engineering controls*  
Handle in accordance to general industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

*Personal protective equipment*  

*Hygiene measure*  
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with the product.

*Eye/face protection*  
Faceshield and safety goggles.
**Skin protection**
Handle with gloves.

**Body protection**
Complete suit protecting against chemicals.

**Respiratory protection**
Air-purifying respirators.

**Environment exposure controls**
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### 9 Physical and chemical properties

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Colourless or white to off-white crystals or powder</td>
</tr>
<tr>
<td>Odour</td>
<td>No data available</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (Solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
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<tr>
<td>Vapour density</td>
<td>No data available</td>
</tr>
<tr>
<td>Thermal decomposition</td>
<td>No data available</td>
</tr>
</tbody>
</table>

#### 9.2 Other safety information
No data available

### 10 Stability and Reactivity

#### 10.1 Reactivity
No data available

#### 10.2 Chemical stability
Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions
No data available

#### 10.4 Conditions to avoid
Incompatible material
10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - refer section 5.2.
In the event of fire - refer section 5.

11 Toxicological Information

11.1 Information on toxicological effects

Acute toxicity
No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS: CQ8751000

12 Ecological Information

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 PBT and vPvB assessment
PBT and vPVB assessment not available. Chemical safety assessment is not required.

**12.6 Other adverse effects**
Discharge into the environment must be avoided.

### 13 Disposal Considerations

#### 13.1 Waste treatments methods

**Product**
Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustive solvent and burn in chemical incinerator equipped with an afterburner and scrubber.

**13.2 Contaminated packaging**
Dispose of as unused product.

### 14 Transport Information

#### 14.1 UN-No

<table>
<thead>
<tr>
<th>ADNR</th>
<th>ADR : 1564</th>
<th>IATA_C : 1564</th>
<th>IATA_P : 1564</th>
<th>IMDG : 1564</th>
<th>RID : 1564</th>
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</thead>
</table>

#### 14.2 UN proper shipping name

<table>
<thead>
<tr>
<th>ADNR</th>
<th>Barium compounds, n.o.s. (Barium chloride dihydrate)</th>
</tr>
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<tbody>
<tr>
<td>ADR</td>
<td>Barium compounds, n.o.s. (Barium chloride dihydrate)</td>
</tr>
<tr>
<td>IATA_C</td>
<td>Barium compounds, n.o.s. (Barium chloride dihydrate)</td>
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<td>Barium compounds, n.o.s. (Barium chloride dihydrate)</td>
</tr>
<tr>
<td>RID</td>
<td>Barium compounds, n.o.s. (Barium chloride dihydrate)</td>
</tr>
</tbody>
</table>

#### 14.3 Transport hazard class(es)

|---------|-----------|---------------|---------------|-------------|------------|

#### 14.4 Packaging group

|---------|-----------|---------------|---------------|-------------|------------|

#### 14.5 Environmental hazards

<table>
<thead>
<tr>
<th>ADNR : No</th>
<th>ADR : No</th>
<th>IMDG : Marine Pollutant : No</th>
<th>IATA_C : No</th>
<th>IATA_P : No</th>
<th>RID : No</th>
</tr>
</thead>
</table>

#### 14.6 Special precautions for use

No data available.

### 15 Regulatory Information

This safety datasheet complies with the requirements of Regulation(EC) No. 1907/2006.

#### 15.1 Safety health and environment regulations/legislation specific for the substance or
mixture
No data available

15.2 Chemical Safety Assessment
No data available

16 Other information
Text of H-Statements and EUH-Phrases mentioned in section 3
H301 Toxic if swallowed
H332 Harmful if inhaled
Acute Tox.oral. 3 Acute toxicity, oral, Category 3
Acute Tox.inhal. 4 Acute toxicity, inhaled, Category 4

Further Information

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