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

1.1 Product Identifiers
Product Number: GRM724
Product Name: Lead (II) nitrate, Hi-LR™
CAS No.: 10099-74-8
EC No.: 233-245-9

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]*
Oxidising liquids, (Category 2), H272
Acute toxicity, Oral, (Category 4), H302
Acute toxicity, Inhaled, (Category 4), H332
Serious eye damage or eye irritation, (Category 1), H318
Reproductive toxicity, (Category 1A), H360Df
Specific target organ toxicity, repeated exposure, (Category 2), H373
Hazardous to the aquatic environment, long term hazard, (Category 1), H410

2.2 Label elements
*Labeling according to Regulation (EC) No.1272/2008*

Pictogram
Signal word: Danger

Hazard Statement(s)
H272 May intensify fire; oxidizer
H302+H332 Harmful if swallowed or if inhaled
H318 Causes serious eye damage
H360Df May damage the unborn child. Suspected of damaging fertility
2.3 Other Hazards

**Precautionary Statement(s)**

**P201**
Obtain special instructions before use.

**P220**
Keep/Store away from clothing/combustible materials.

**P273**
Avoid release to the environment.

**P280**
Wear protective gloves/protective clothing/eye protection/face protection.

**P305+P351+P338**
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**P308 + P313**
IF exposed or concerned: Get medical advice/attention.

3 Composition/Information On Ingredients

3.1 Substances

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead (II) nitrate, Hi-LR&lt;sup&gt;TM&lt;/sup&gt;</td>
<td>As Per EC Regulation 1272/2008 Ox. Liq. 2; Acute Tox.oral 4; Acute Tox.inhal. 4; Eye Dam. 1; Repr. 1A; STOT RE 2; Aquatic Chronic 1 H272; H302+H332; H318; H360Df; H373; H410</td>
<td>100%</td>
</tr>
<tr>
<td>CAS No. : 10099-74-8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC No. : 233-245-9</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**
Take off contaminated clothing and shoes immediately. Wash with plenty of soap and water. Take victim immediately to hospital. 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**
Nitrogen oxides (NOx), Lead oxides

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. Keep away from sources of heat and ignition - No smoking. 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>Data Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White crystals or powder or solid</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>
</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
Organic materials Powdered metals

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 : OG2100000

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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
ADNR  :  - 1469 ADR  :  - 1469 IATA_C  :  - 1469 IATA_P  :  - 1469 IMDG  :  - 1469 RID  :  - 1469

14.2  UN proper shipping name
ADNR  :  Lead nitrate
ADR   :  Lead nitrate
IATA_C :  Lead nitrate
IATA_P :  Lead nitrate
IMDG  :  Lead nitrate
RID   :  Lead nitrate

14.3  Transport hazard class(es)
ADNR  :  5.1 ADR  :  5.1 IATA_C :  5.1 IATA_P :  5.1 IMDG :  5.1 RID :  5.1
14.4 Packaging group
ADNR : II  ADR : II  IATA_C : II  IATA_P : II  IMDG : II  RID : II

14.5 Environmental hazards
ADNR : No  ADR : No  IMDG : Marine Pollutant : Yes  IATA_C : No  IATA_P : No  RID : No

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
H272 May intensify fire; oxidizer
H302+H332 Harmful if swallowed or if inhaled
H318 Causes serious eye damage
H360Df May damage the unborn child. Suspected of damaging fertility
H373 Causes damage to organs through prolonged or repeated exposure
H410 Very toxic to aquatic life with long lasting effects
Ox. Liq. 2 Oxidising liquids, Category 2
Acute Tox.oral 4 Acute toxicity, oral, Category 4
Acute Tox.inhal. 4 Acute toxicity, inhaled, Category 4
Eye Dam. 1 Serious eye damage or eye irritation, Category 1
Repr. 1A Reproductive toxicity, Category 1A
STOT RE 2 Specific target organ toxicity, repeated exposure, Category 2
Aquatic Chronic 1 Hazardous to the aquatic environment, long term hazard, Category 1

Further Information

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