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

1.1  Product Identifiers
Product Number  GRM10417
Product Name  Silver sulphate, Hi-LR™
CAS No. :  10294-26-5
EC No. :  233-653-7

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]
Skin corrosion or irritation, (Category 2), H315
Serious eye damage or eye irritation, (Category 2A), H319
Specific target organ toxicity, single exposure, Respiratory tract irritation, (Category 3), H335
Hazardous to the aquatic environment, acute hazard, (Category 1), H400

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

Pictogram
Signal word  Warning
Hazard Statement(s)
H315  Causes skin irritation
H319  Causes serious eye irritation
H335  May cause respiratory irritation
H400  Very toxic to aquatic life
Precautionary Statement(s)
2.3 Other Hazards
This substance/mixture contains no components considered to be either persistent, bioaccumulative
and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3 Composition/Information On Ingredients

3.1 Substances
Molecular Formula : Ag₂SO₄
Molecular weight : 311.80
CAS No. : 10294-26-5
EC No. : 233-653-7

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silver sulphate, HI-LR™</td>
<td>As Per EC Regulation 1272/2008</td>
<td>100%</td>
</tr>
<tr>
<td>CAS No. :</td>
<td>10294-26-5</td>
<td></td>
</tr>
<tr>
<td>EC No. :</td>
<td>233-653-7</td>
<td></td>
</tr>
<tr>
<td>Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; Aquatic Acute 1 H315; H319; H335; H400</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
   Sulphur oxides Silver/silver 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. 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.

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9  **Physical and chemical properties**

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

- **Appearance**: White to off-white crystals or powder
- **Odour**: No data available
- **Odour Threshold**: No data available
- **pH**: No data available
- **Melting/freezing point**: No data available
- **Initial boiling point and boiling range**: No data available
- **Flash point**: No data available
- **Upper/lower flammability or explosive limits**: No data available
- **Evaporation rate**: No data available
- **Vapour pressure**: No data available
- **Relative density**: No data available
- **Water Solubility**: No data available
- **Partition coefficient: n-octanol/water**: No data available
- **Autoignition Temperature**: No data available
- **Decomposition Temperature**: No data available
- **Viscosity**: No data available
- **Explosive properties**: No data available
- **Oxidizing properties**: No data available
- **Vapour density**: No data available
- **Thermal decomposition**: No data available

9.2  **Other safety information**

No data available

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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 : Not available

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 as chemical safety assessment is not required / not conducted.

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 : 3077  ADR : 3077  IATA_C : 3077  IATA_P : 3077  IMDG : 3077  RID : 3077

14.2 **UN proper shipping name**

**ADNR** : Environmentally hazardous substance, solid, n.o.s (Silver sulphate)
**ADR** : Environmentally hazardous substance, solid, n.o.s (Silver sulphate)
**IATA_C** : Environmentally hazardous substance, solid, n.o.s (Silver sulphate)
**IATA_P** : Environmentally hazardous substance, solid, n.o.s (Silver sulphate)
**IMDG** : Environmentally hazardous substance, solid, n.o.s (Silver sulphate)
**RID** : Environmentally hazardous substance, solid, n.o.s (Silver sulphate)

14.3 **Transport hazard class(es)**

ADNR : 9  ADR : 9  IATA_C : 9  IATA_P : 9  IMDG : 9  RID : 9

14.4 **Packaging group**


14.5 **Environmental hazards**

ADNR : Yes  ADR : Yes  IMDG : Marine Pollutant : No  IATA_C : Yes  IATA_P : Yes  RID : Yes
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
H315 Causes skin irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation
H400 Very toxic to aquatic life
Skin Irrit. 2 Skin corrosion or irritation, Category 2
Eye Irrit. 2A Serious eye damage or eye irritation, Category 2A
STOT SE 3 Specific target organ toxicity, single exposure, Respiratory tract irritation, Category 3
Aquatic Acute 1 Hazardous to the aquatic environment, acute hazard, Category 1

Further Information

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