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

1.1 Product Identifiers

Product Number: GRM341
Product Name: Cobaltous sulphate heptahydrate, Hi-LR™
CAS No.: 10026-24-1
EC No.: 233-334-2

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 4), H302
Sensitisation, Skin, (Category 1), H317
Sensitisation, respiratory, (Category 1), H334
Germ cell mutagenicity, (Category 2), H341
Carcinogenicity, (Category 1B), H350i
Reproductive toxicity, (Category 1B), H360F
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)
H302 Harmful if swallowed
H317 May cause an allergic skin reaction
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
H341 Suspected of causing genetic defects
H350i May cause cancer by inhalation
H360F May damage fertility
H410 Very toxic to aquatic life with long lasting effects

Precautionary Statement(s)
P201 Obtain special instructions before use.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P284 Wear respiratory protection.
P304 + P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P501 Dispose of contents/container to an approved waste disposal plant.

2.3 Other Hazards
none

3 Composition/Information On Ingredients

3.1 Substances
Synonym Cobalt (II) sulphate heptahydrate
Molecular Formula : CoSO₄·7H₂O
Molecular Weight : 281.10
CAS No. : 10026-24-1
EC No. : 233-334-2

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cobaltous sulphate heptahydrate, Hi-LR™</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&lt;= 100%</td>
</tr>
<tr>
<td>CAS No. : 10026-24-1</td>
<td>Acute Tox.oral 4; Skin Sens. 1; Resp. Sens. 1; Muta. 2; Carc. 1A, 1B; Repr.Tox. 1A, 1B; Aquatic Chronic 1</td>
<td></td>
</tr>
<tr>
<td>EC No. : 233-334-2</td>
<td>H302; H317; H334; H341; H350i; H360F; H410</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
Sulphur oxides, Cobalt/cobalt 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.

---

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>Orange to red-brown 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>
</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: GG3200000

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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.

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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.

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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. (Cobaltous sulphate heptahydrate)
ADR: Environmentally hazardous substance, solid, n.o.s. (Cobaltous sulphate heptahydrate)
IATA_C: Environmentally hazardous substance, solid, n.o.s.
(Cobaltous sulphate heptahydrate)
IATA_P : Environmentally hazardous substance, solid, n.o.s.
(Cobaltous sulphate heptahydrate)
IMDG : Environmentally hazardous substance, solid, n.o.s.
(Cobaltous sulphate heptahydrate)
RID : Environmentally hazardous substance, solid, n.o.s.
(Cobaltous sulphate heptahydrate)

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
H302  Harmful if swallowed
H317  May cause an allergic skin reaction
H334  May cause allergy or asthma symptoms or breathing difficulties if inhaled
H341  Suspected of causing genetic defects
H350i  May cause cancer by inhalation
H360F  May damage fertility
H410  Very toxic to aquatic life with long lasting effects
Acute Tox.oral 4  Acute toxicity, oral, Category 4
Skin Sens. 1  Sensitisation, Skin, Category 1
Resp. Sens. 1  Sensitisation, respiratory, Category 1
Muta. 2  Germ cell mutagenicity, Category 2
Carc. 1A, 1B  Carcinogenicity, Category 1A, 1B
Repr.Tox. 1A, 1B  Reproductive toxicity, Category 1A, 1B
Aquatic Chronic 1  Hazardous to the aquatic environment, long term hazard, Category 1
Further Information

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