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

1.1 Product Identifiers
Product Number: GRM1088
Product Name: Mercuric sulphate, Hi-AR™/ACS
CAS No.: 7783-35-9
Index-No.: 080-002-00-6
EC No.: 231-992-5

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 2), H300
Acute toxicity, Dermal, (Category 1), H310
Acute toxicity, Inhaled, (Category 2), H330
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)
H300+H310+H330: Fatal if swallowed, in contact with skin or if inhaled
H373: Causes damage to organs through prolonged or repeated exposure
H410: Very toxic to aquatic life with long lasting effects

Precautionary Statement(s)
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P262 Do not get in eyes, on skin, or on clothing.
P280 Wear protective gloves/protection.
P301+P330+P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a
POISON CENTER or doctor/physician.
P302 + P352 + P310 IF ON SKIN: Wash with plenty of water. Immediately call a POISON
CENTER/doctor.
P304+P340+P310 IF INHALED: Remove person to fresh air and keep comfortable for
breathing. Immediately call a POISON CENTER/doctor.

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
Synonym Mercury (II) sulphate
Molecular Formula : HgSO$_4$
Molecular Weight : 296.65
CAS No. : 7783-35-9
Index-No : 080-002-00-6
EC No. : 231-992-5

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercuric sulphate, Hi-AR™/ACS</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&lt;= 100%</td>
</tr>
<tr>
<td>CAS No. : 7783-35-9</td>
<td>Acute Tox. oral 1,2; Acute Tox. dermal 1, 2; Acute Tox.inhal.1, 2; STOT RE 2; Aquatic Chronic 1</td>
<td></td>
</tr>
<tr>
<td>EC No. : 231-992-5</td>
<td>H300+H310+H330; H373; H410</td>
<td></td>
</tr>
<tr>
<td>Index-No : 080-002-00-6</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, Mercury/mercury 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>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>
</tbody>
</table>
Autoignition Temperature  
Decomposition Temperature  
Viscosity  
Explosive properties  
Oxidizing properties  
Vapour density  
Thermal decomposition  

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 : OX0500000

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

14.2 UN proper shipping name
ADNR : Mercury sulfates
ADR : Mercury sulfates
IATA_C : Mercury sulfates
IATA_P : Mercury sulfates
IMDG : Mercury sulfates
RID : Mercury sulfates

14.3 Transport hazard class(es)
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
H300+H310+H330    Fatal if swallowed, in contact with skin or if inhaled
H373    Causes damage to organs through prolonged or repeated exposure
H410    Very toxic to aquatic life with long lasting effects
Acute Tox. oral 1,2    Acute toxicity, oral, Category 1, 2
Acute Tox. dermal 1, 2    Acute toxicity, dermal, Category 1, 2
Acute Tox.inhal.1, 2    Acute toxicity, inhaled, Category 1, 2
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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