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

1.1 Product Identifiers
- Product Code: GRM2643
- Product Name: Ammonium sulphamate, Hi-AR™/ACS

1.2 Relevant identified uses of the substance or mixture and uses advised against
- Identified uses: Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet
- Produced by: HiMedia Laboratories Pvt. Ltd.
- Address: 23, Vadhani Indl.Estate, LBS Marg, Mumbai 400 086, India.
- Tel. No.: +91-22-2500 0970, +91-22-2500 1607
- Fax No.: +91-22-2500 2468

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
- Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]
  - Acute toxicity, oral (Category 4)
  - Hazardous to the aquatic environment, acute hazard (Category 1)

- Classification according to EU Directives 67/548/EEC or 1999/45/EC
  - Harmful if swallowed.
  - Very toxic to aquatic organisms.

2.2 Label elements
- Labelling according Regulation (EC) No 1272/2008 [CLP]
  - Pictogram
  - Signal word: Warning
  - Hazard Statement(s)
    - H302: Harmful if swallowed
    - H400: Very toxic to aquatic life
  - Precautionary Statement(s)
    - P273: Avoid release to the environment.


- Symbol(s)
- R-Phrase(s)
  - R22: Harmful if swallowed.
  - R50: Very toxic to aquatic organisms.
- S-Phrase(s)
  - S24/25: Avoid contact with skin and eyes.
  - S61: Avoid release to the environment. Refer to special instructions/Safety data sheets.
2.3 Other hazards - none

3. Composition/Information on Ingredients
3.1 Substances
  Synonym: Ammonium amidosulphonate, Hi-AR™/ACS

  Molecular Formula: $\text{N}_2 \text{H}_6 \text{SO}_3$
  Molecular Weight: 114.12

<table>
<thead>
<tr>
<th>Component</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium sulphamate, Hi-AR™/ACS</td>
<td></td>
</tr>
<tr>
<td>CAS-No.</td>
<td>7773-06-0</td>
</tr>
<tr>
<td>EC-No.</td>
<td>231-871-7</td>
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</table>

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 off with soap and plenty of water. Consult a physician.
  
  In case of eye contact
  Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
  
  If swallowed
  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
  No data available

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.

5.2 Special hazards arising from the substance or mixture
  nitrogen oxides (NOx), Sulphur 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 vapors, 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.

6.3 Methods and materials for containment and cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. 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 vapour or mist. Normal measures for preventive fire protection.

7.3 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended Storage Temperature: Store below 30°C

7.3 Specific end uses
No data available

8 Exposure Controls/Pers...
<table>
<thead>
<tr>
<th>Property</th>
<th>Data Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White hygroscopic crystals or powder or solid or chunks</td>
</tr>
<tr>
<td>Odour</td>
<td>No data available</td>
</tr>
<tr>
<td>Odour Threshold</td>
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<tr>
<td>Odour Threshold</td>
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<tr>
<td>pH</td>
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<td>Melting/freezing point</td>
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<tr>
<td>Initial boiling point and boiling range</td>
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<tr>
<td>Flash point</td>
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<tr>
<td>Upper/lower flammability or explosive limits</td>
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<tr>
<td>Vapour pressure</td>
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<tr>
<td>Vapour density</td>
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<tr>
<td>Relative density</td>
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</tr>
<tr>
<td>Water Solubility</td>
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<tr>
<td>Partition coefficient: n-octanol/Water</td>
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<tr>
<td>Autoignition Temperature</td>
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<tr>
<td>Decomposition Temperature</td>
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</tr>
<tr>
<td>Viscosity</td>
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</tr>
<tr>
<td>Explosive properties</td>
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</tr>
<tr>
<td>Oxidizing properties</td>
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</tbody>
</table>

### 9.2 Other safety information
No data available

### 10 Stability and Reactivity

#### 10.1 Reactivity
No data available

#### 10.2 Chemical stability
No data available

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

#### 10.4 Conditions to avoid
No data available

#### 10.5 Incompatible materials
Strong oxidizing agents

#### 10.6 Hazardous decomposition products
Other decomposition products - No data available

### 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

##### Aspiration hazard
No data available

### Potential Health Effects
Inhalation.
Refer Section 2

Skin
Refer Section 2

Eyes
Refer Section 2

Ingestion
Refer Section 2

Additional Information
RTECS : WO6125000

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
No data available
12.6 Other adverse effects
No data available

13 Disposal Considerations
13.1 Waste treatments methods
Product
Offer surplus and non-recyclable solutions to a licenced disposal company. Contact a licenced professional waste disposal service to dispose of this material.

13.2 Contaminated packaging
Dispose of as unused product.

14 Transport Information
14.1 UN-No.
ADR/RID: 3077  IMDG: 3077  IATA: 3077

14.2 UN proper shipping name
ADR/RID : Ammonium sulphamate, Hi-AR™/ACS
IMDG : Ammonium sulphamate, Hi-AR™/ACS
IATA : Ammonium sulphamate, Hi-AR™/ACS

14.3 Transport hazard class(es)
ADR/RID: 9  IMDG: 9  IATA: 9

14.4 Packaging group
ADR/RID: 3  IMDG: 3  IATA: 3

14.5 Environmental hazards
ADR/RID: No  IMDG: Marine Pollutant: Yes  IATA: 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
16 Other Information
Further information
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