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

1.1. Product Identifiers
- **Product Number**: GRM402
- **Product Name**: Potassium nitrate, Hi-AR™
- **CAS No.**: 7757-79-1
- **EC No.**: 231-818-8

1.2. Relevant identified uses of the substance or mixture and uses advised against
- **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 3), H272

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

  ![Pictogram]

  - **Signal word**: Warning
  - **Hazard Statement(s)**: H272
  - **Precautionary Statement(s)**: P220

2.3. Other Hazards
- **none**

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>Potassium nitrate, Hi-AR™</td>
<td>As Per EC Regulation 1272/2008</td>
<td>100%</td>
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<tr>
<td>CAS No. : 7757-79-1</td>
<td>Ox. Sol. 3 H272</td>
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<td>EC No. : 231-818-8</td>
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<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), Potassium 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.

<table>
<thead>
<tr>
<th>9</th>
<th>Physical and chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.1</td>
<td>Information on basic physical and chemical properties</td>
</tr>
<tr>
<td>Appearance</td>
<td>Colourless to white to off-white crystals or powder</td>
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<tr>
<td>Odour</td>
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</tr>
<tr>
<td>Odour Threshold</td>
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<tr>
<td>pH</td>
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<tr>
<td>Melting/freezing point</td>
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<td>Initial boiling point and boiling range</td>
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<tr>
<td>Flash point</td>
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</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
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<tr>
<td>Evaporation rate</td>
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<tr>
<td>Flammability (Solid, gas)</td>
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<tr>
<td>Vapour pressure</td>
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<tr>
<td>Relative density</td>
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<tr>
<td>Water Solubility</td>
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<tr>
<td>Partition coefficient: n-octanol/water</td>
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</tr>
<tr>
<td>Autoignition Temperature</td>
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<tr>
<td>Decomposition Temperature</td>
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<tr>
<td>Viscosity</td>
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<tr>
<td>Explosive properties</td>
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<tr>
<td>Oxidizing properties</td>
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<tr>
<td>Vapour density</td>
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<tr>
<td>Thermal decomposition</td>
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</table>

<table>
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<tr>
<th>9.2</th>
<th>Other safety information</th>
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<table>
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<th>10</th>
<th>Stability and Reactivity</th>
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</thead>
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<td>10.1</td>
<td>Reactivity</td>
</tr>
<tr>
<td>No data available</td>
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<tr>
<td>10.2</td>
<td>Chemical stability</td>
</tr>
<tr>
<td>Stable under recommended storage conditions.</td>
<td></td>
</tr>
<tr>
<td>10.3</td>
<td>Possibility of hazardous reactions</td>
</tr>
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</tr>
<tr>
<td>10.4</td>
<td>Conditions to avoid</td>
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<tr>
<td>Incompatible material</td>
<td></td>
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<tr>
<td>10.5</td>
<td>Incompatible materials</td>
</tr>
<tr>
<td>Strong reducing agents, Strong acids</td>
<td></td>
</tr>
<tr>
<td>10.6</td>
<td>Hazardous decomposition products</td>
</tr>
</tbody>
</table>
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 : TT3700000

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 : 1486  ADR : 1486  IATA_C : 1486  IATA_P : 1486  IMDG : 1486  RID : 1486

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

14.5 Environmental hazards
ADNR : No  ADR : No  IMDG : Marine Pollutant : No  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
Ox. Sol. 3 Oxidising solids, Category 3
Further Information

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