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

1.1 **Product Identifiers**

- **Product Number**: GRM1747
- **Product Name**: Potassium borohydride
- **CAS No.**: 13762-51-1
- **EC No.**: 237-360-5

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.**

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]**
  - Substances And Mixtures Which, In Contact With Water, Emit Flammable Gases, (Category 1), H260
  - Acute toxicity, Oral, (Category 3), H301
  - Acute toxicity, Dermal, (Category 3), H311
  - Skin corrosion or irritation, (Category 1B), H314

2.2 **Label elements**

- **Labelling according to Regulation (EC) No.1272/2008**

  - **Pictogram**: 
    - **Signal word**: Danger
  - **Hazard Statement(s)**:
    - H260: In contact with water releases flammable gases which may ignite spontaneously
    - H301: Toxic if swallowed
    - H311: Toxic in contact with skin
    - H314: Causes severe skin burns and eye damage

Precautionary Statement(s)
2.3 Other Hazards
none

3 Composition/Information On Ingredients

3.1 Substances
Synonym Potassium tetrahydroborate
Molecular Formula : KBH₄
Molecular weight : 53.94
CAS No. : 13762-51-1
EC No. : 237-360-5

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium borohydride</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&lt;= 100%</td>
</tr>
<tr>
<td>CAS No. : 13762-51-1</td>
<td>Water-react. 1; Acute Tox. 3; Acute Tox. 3; Skin Corr. 1A H260; H301; H311; H314</td>
<td></td>
</tr>
<tr>
<td>EC No. : 237-360-5</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 labelling (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
Dry powder and sand
Unsuitable extinguishing media:
No data available.

5.2 Special hazards arising from the substance or mixture
Nature of decomposition products not known

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
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. Do not flush with water.

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. Light sensitive. 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 googles.

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>
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</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White crystals.</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>Vapour pressure</td>
<td>No data available</td>
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<tr>
<td>Relative density</td>
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</tr>
<tr>
<td>Water Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
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</tr>
<tr>
<td>Autoignition Temperature</td>
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</tr>
<tr>
<td>Decomposition Temperature</td>
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</tr>
<tr>
<td>Viscosity</td>
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<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour density</td>
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</tr>
<tr>
<td>Thermal decomposition</td>
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</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
Reacts violently with water

10.4 Conditions to avoid
Exposure to moisture
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 : TS7525000

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 licenced 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 : 1870  ADR : 1870  IATA_C : 1870  IATA_P : 1870  IMDG : 1870  RID : 1870

#### 14.2 UN proper shipping name
<table>
<thead>
<tr>
<th>ADNR</th>
<th>ADR</th>
<th>IATA_C</th>
<th>IATA_P</th>
<th>IMDG</th>
<th>RID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium borohydride</td>
<td>Potassium borohydride</td>
<td>Potassium borohydride</td>
<td>Potassium borohydride</td>
<td>Potassium borohydride</td>
<td>Potassium borohydride</td>
</tr>
</tbody>
</table>

#### 14.3 Transport hazard class(es)
ADNR : 4.3  ADR : 4.3  IATA_C : 4.3  IATA_P : 4.3  IMDG : 4.3  RID : 4.3

#### 14.4 Packaging group
ADNR : -  ADR : -  IATA_C : -  IATA_P : -  IMDG : -  RID : -

#### 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/legistation 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

- **H260**  In contact with water releases flammable gases which may ignite spontaneously
- **H301**  Toxic if swallowed
- **H311**  Toxic in contact with skin
- **H314**  Causes severe skin burns and eye damage
- **Water-react. 1**  Substances And Mixtures Which, In Contact With Water, Emit Flammable Gases, Category 1
- **Acute Tox. 3**  Acute toxicity, oral, Category 3
- **Acute Tox. 3**  Acute toxicity, dermal, Category 3
- **Skin Corr. 1A**  Skin corrosion or irritation, Category 1A

**Page 6 of 7**
Further Information

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