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

1.1  Product Identifiers
Product Number  GRM1294
Product Name  Silicon powder
CAS No.  7440-21-3
EC No.  231-130-8

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

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

Pictogram
Signal word  Warning
Hazard Statement(s)
H228  Flammable solid
Precautionary Statement(s)
P210  Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

2.3  Other Hazards
none

3  Composition/Information On Ingredients

3.1  Substances
Atomic Formula: Si
Atomic Weight.: 28.09
CAS No.: 7440-21-3
EC No.: 231-130-8

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicon powder</td>
<td>As Per EC Regulation 1272/2008</td>
<td>100%</td>
</tr>
<tr>
<td>CAS No. :</td>
<td>7440-21-3</td>
<td></td>
</tr>
<tr>
<td>EC No. :</td>
<td>231-130-8</td>
<td></td>
</tr>
<tr>
<td>Flam. Sol. 1 H228</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
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
Silicon 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.

<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>Gray to black or brown powder or lustrous or needle-like crystals or solid</td>
</tr>
<tr>
<td>Odour</td>
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</tr>
<tr>
<td>Odour Threshold</td>
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</tr>
<tr>
<td>pH</td>
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</tr>
<tr>
<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>
<tr>
<td>Upper/lower flammability or explosive limits</td>
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</tr>
<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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<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>
<td>Viscosity</td>
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<tr>
<td>Explosive properties</td>
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<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
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<tr>
<td>Vapour density</td>
<td>No data available</td>
</tr>
<tr>
<td>Thermal decomposition</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 : VW0400000

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 : Silicon powder, amorphous
ADR : Silicon powder, amorphous
IATA_C : Silicon powder, amorphous
IATA_P : Silicon powder, amorphous
IMDG : Silicon powder, amorphous
RID : Silicon powder, amorphous

14.3 Transport hazard class(es)
ADNR : 4.1 ADR : 4.1 IATA_C : 4.1 IATA_P : 4.1 IMDG : 4.1 RID : 4.1

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
H228 Flammable solid
Flam. Sol. 1 Flammable solids, Category 1

Further Information
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