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

1.1 Product Identifiers
Product Code       RM1828
Product Name       Leucomalachite green

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified uses     Laboratory chemicals

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, may cause long-term adverse. Effects in the aquatic environment.

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.
R50/53            Very toxic to aquatic organisms, may cause long-term adverse. Effects in the aquatic environment.

S-Phrase(s)
S60               This material and its container must be disposed disposed of as hazardous waste.
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: 4,4’-Benzyldienebis (N,N-dimethylaniline)

Molecular Formula: \( \text{C}_{23} \text{H}_{26} \text{N}_2 \)
Molecular Weight: 330.47

<table>
<thead>
<tr>
<th>Component</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leucomalachite green</td>
<td></td>
</tr>
<tr>
<td>CAS-No.</td>
<td>129-73-7</td>
</tr>
<tr>
<td>EC-No.</td>
<td>204-961-9</td>
</tr>
</tbody>
</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
   No data available

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/Personal Protection

8.1 Control parameters
Components with workplace control parameters

8.2 Exposure controls
Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment
Hygiene measure
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands face after working with the substance

Eye/face protection
Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (Without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.
Wash and dry hands.
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body protection
Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific work place.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type ABEK(EN 14387) respirator cartridges as a backup to the engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environment exposure controls
Do not empty into drains

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties
Appearance  White to tan or light brown or light green or light blue powder

Odour  No data available
Odour Threshold  No data available
Odour Threshold  No data available
pH  No data available
Melting/freezing point  No data available
Initial boiling point and boiling range  No data available
Flash point  No data available
Upper/lower flammability or explosive limits  No data available
Vapour pressure  No data available
Vapour density  No data available
Relative density  No data available
Water Solubility  No data available
Partition coefficient: n-octanol/Water  No data available
Autoignition Temperature  No data available
Decomposition Temperature  No data available
Viscosity  No data available
Explosive properties  No data available
Oxidizing properties  No data available

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.
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  : Leuco malachite green
IMDG     : Leuco malachite green
IATA     : Leuco malachite green

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:No  IATA: No
EMS Code : F-A, S-F

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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