Name of the Product: Gram's Crystal Violet
Code No.: S012

Section 1: Chemical Identification

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Name of the Product</th>
<th>Produced by</th>
<th>Address</th>
<th>Tel. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>S012</td>
<td>Gram's Crystal Violet</td>
<td>HiMedia Laboratories Pvt. Ltd.</td>
<td>23, Vadhani Indl. Estate, LBS Marg, Mumbai 400 086, India.</td>
<td>2500 0970, 2500 1607 Fax No. 022 2500 2468</td>
</tr>
</tbody>
</table>

Section 2: Composition

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Grams/Litre</th>
<th>Ingredients</th>
<th>Grams/Litre</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Crystal violet</td>
<td>2.00 gm</td>
<td>*Ethyl alcohol 95%</td>
<td>20.00 ml</td>
</tr>
<tr>
<td>*Ammonium oxalate</td>
<td>0.80 gm</td>
<td>Distilled water</td>
<td>80.00 ml</td>
</tr>
</tbody>
</table>

* Harmful / Dangerous to environment / Flammable / Toxic material

Crystal violet
CAS No.: 548-62-9
R: 22-41-50/53
RTECS: BO 900000

Ethyl alcohol 95%
CAS No.: 64-17-5
R: 11
RTECS: KQ 630000

Ammonium oxalate
CAS No.: 1113-38-8
RTECS: RO 275000

Section 3: Hazards Identification

Hazard: Inhalation and ingestion of, or skin penetration by these substances is harmful to one’s health. Non-recurring, recurring or lengthy exposure to these substances may result in irreversible damage.
Caution: Avoid contact with the human body, including inhalation of the vapours and in cases of malaise consult a doctor.

Hazard: Substances which are harmful to the aquatic (aquatic organisms, waters), as well as the non-aquatic environment (fauna, flora, atmosphere) or which have a detrimental effect at longer term.
Caution: Avoid release to the environment.

Hazard: 1. Liquids with flash points below 0°C and a boiling point/initial boiling point of max. 35°C
Caution: Avoid all contact with all sources of ignition.
Hazard: 2. Gaseous substances which are flammable in contact with air at ambient temperature and pressure.
Caution: Avoid formation of flammable gas-air mixtures and keep away from sources of ignition.

Hazard: The substances are very hazardous to health when breathed, swallowed or in contact with the skin and may even lead to death. Non-recurring, recurring or lengthy exposure to these substances may result in irreversible damage.
Caution: Avoid contact with the human body, and immediately consult a doctor in cases of malaise.
Section 4 : **First-Aid Measures**
In case of swallowing, wash out mouth with water provided person is conscious. In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. In case of inhalation, remove to fresh air. If breathing becomes difficult, call physician. In case of contact with eyes, wash with copious amounts of water for at least 15 minutes. Assure adequate washing by separating the eyelids with fingers. In serious conditions, call a physician, show the container or label.

Section 5 : **Fire Fighting Measures**
Extinguishing Media. Water spray. Carbon dioxide, dry chemical powder or appropriate foam. Special firefighting procedures. Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6 : **Accidental Release Measures**
Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 : **Handling and Storage**
Handling - Refer to Section 8
Storage - Store below 30°C

Section 8 : **Exposure Controls / Personal Protection**
Wear appropriate NIOSH/MSHA-approved respiratory, chemical-resistant gloves, safety goggles, other protective clothing. Mechanical exhaust required.

Section 9 : **Physical and Chemical Properties**
Appearance : Liquid
Colour : Purple

Section 10 : **Stability and Reactivity**
Stability : Product is stable if stored as per the conditions specified under storage of Section No. 7. Product loses its potency/performance above 45°C.
Conditions to avoid : Heat and light.
Hazardous polymerization will not occur.

Section 11 : **Toxicological Information**
Acute Effects : May be harmful if swallowed. Exposure can cause : Stomach pains, vomiting, diarrhoea. Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.
RTECS No. : BO 9000000  KQ 6300000  RO 2750000
For complete information RTECS may be referred

Section 12 : **Ecological Information**
Data not available
Section 13: **Disposal Considerations**
On completion of work all used or unusable preparations of this product and derivatives thereof are to be disposed off by autoclaving and/or by incineration. Dispose of waste in accordance with all applicable Federal, State and local laws.

Section 14: **Transport Information**
UN No.: Not applicable.

Section 15: **Regulatory Information**
- **Risk Phrases**: Harmful if swallowed
- **Risk Phrases**: Risk of serious damage to eyes
- **Risk Phrases**: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- **Risk Phrases**: Highly flammable
- **Safety Phrases**: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- **Safety Phrases**: Wear eye/face protection
- **Safety Phrases**: This material and its container must be disposed of as a hazardous waste
- **Safety Phrases**: Avoid release to the environment. Refer to the special instructions/Safety data sheets
- **Safety Phrases**: Keep container tightly closed
- **Safety Phrases**: Keep away from sources of ignition - No smoking

Significance of signs: Inhalation and ingestion of, or skin penetration by these substances is harmful to one's health. Non-recurring, recurring or lengthy exposure to these substances may result in irreversible damage.

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Section 16: **Other Information**
The information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. The information is offered solely for users' obligation to investigate and determine the suitability of the information for their particular purpose.