Material Safety Data Sheet

1. Product Identification
Product Name: Eco Gluco Kit (GOD/POD Method)
Catalog Number: GLU 013

2. Composition / Information on Hazardous Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>% W/V</th>
<th>Exposure Limits in Air</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>TLV</td>
</tr>
</tbody>
</table>

Reagent 1: No hazardous components > 1%, 0.1 % carcinogens

Reagent 2: Buffer Reagent

<table>
<thead>
<tr>
<th>Phenol</th>
<th>108-95-2</th>
<th>8%</th>
<th>5 ppm</th>
<th>10 ppm</th>
<th>5 ppm</th>
<th>N/A</th>
<th>N/A</th>
</tr>
</thead>
</table>

Reagent 3: N/A

Reagent 4: N/A

Reagent 5: N/A

3. Hazard Identification

Primary Routes of Entry:
Inhalation, Ingestion, Skin and / or eye contact.

Inhalation:
Inhalation may cause headache, coughing, difficulty in breathing, chest pain, severe lung irritation, or pulmonary edema.

Ingestion:
Ingestion may cause nausea, vomiting, gastrointestinal irritation, and burns to mouth and throat.

Skin Contact:
The substance is readily absorbed by skin. Contact with the skin can cause irritation and burns.
Eye Contact:
Contact with the eyes causes severe irritation and burns and may cause blindness.

Chronic Exposure:
Chronic exposure may lead to damage of kidney and liver

Medical Conditions Aggravated by Exposure:
Persons with pre-existing kidney disorders, skin disorders and eye problem or impaired respiratory function may be more susceptible to the effects of the substance.

Health Effects:
Adverse health effects are not expected from the recommended use of this product.

4. First Aid Measures

Inhalation:
If breathing becomes difficult, remove victim to fresh air. Seek medical attention immediately.

Ingestion:
If swallowed do not induce vomiting; if conscious, give water, milk or milk of magnesia.

Skin Contact:
Avoid skin contact. If skin contact occurs, remove contaminated clothing and wash exposed skin with water for at least 15 minutes. Get medical attention immediately.

Eye Contact:
Immediately flush eye(s) with large volume of water for at least 15 minutes, occasionally lifting the lower lids. Get medical attention immediately.

5. Fire Fighting Measures

Flash Point (closed cup): 79°C(175°F) Flammable Limits – LEL: 1.5 % UEL: 8.6 %

Extinguishing Media:
Use water spray, Alcohol foam, dry chemical or carbon dioxide.

Special Fire Procedures:
Firefighters should wear proper protective equipment and self contained breathing apparatus with full facepiece operated in positive pressure mode.

Unusual Fire and Explosion Hazards:
Gives off heavy smoke, flammable vapors which may form explosive mixture with air. Closed containers exposed to heat may explode. Contact with strong oxidizers may cause fire.

6. Accidental Release Measures

Steps to be taken in case material is Released or Spilled:
PPE should be level D: lab gloves, chemical resistant apron, boots and splash goggles. Use an absorbent material to contain / pick up the spilled solution. Place all spill residue into a suitable container, seal, label and hold for disposal.

7. Handling and Storage

Refer to packet insert for additional information on handling and storage procedures.

8. Exposure Controls and Personal Protection

Ventilation Data:
A system of local and / or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source.
Respiratory Protection:
Respiratory protection is not required under normal use of this product. If respiratory protection is needed, follow OSHA respirator regulations (29CFR1910.134) and, if necessary, wear a NIOSH approved respirator. Select respirator based on its suitability to provide worker protection for given working conditions, level of airborne concentration, and presence of sufficient oxygen.

Protective Gloves:
Wear appropriate protective gloves to prevent skin contact. Replace torn or punctured gloves promptly.

Other Protective Equipment:
Wear appropriate eye protection to prevent eye contact. Wear appropriate body protection to prevent skin contact.

Other Engineering Controls:
Eye wash stations and deluge showers.

Work Practices:
Good laboratory technique should be used when handling this product. Observe appropriate chemical hygiene. Avoid contact with eyes or skin. Do not place in mouth.

Hygienic Practices:
Do not eat, drink, or smoke while working with product. Upon completion of work activities involving this product, wash hands thoroughly with soap and water.

9. Physical And Chemical Properties
For All Components Unless Otherwise Indicated

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relative Vapour density (air = 1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Specific Gravity (water = 1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Soluble</td>
</tr>
<tr>
<td>Vapour Pressure, mm Hg @ 20°C</td>
<td>N/A</td>
</tr>
<tr>
<td>Evaporation rate (nBuAc = 1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Freezing / Melting Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>N/A</td>
</tr>
<tr>
<td>pH</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Odour and Appearance Information
Reagent 1: N/A
Reagent 2: Clear, Colourless liquid with phenolic odour
Reagent 3: N/A
Reagent 4: N/A
Reagent 5: N/A

10. Stability and Reactivity
Incompatibility (Materials to Avoid):
Strong oxidizing agents, strong bases, alkalis, calcium hypochlorite.

Hazardous Decomposition Products:
Thermal decomposition may produce carbon monoxide and carbon dioxide.

Will Hazardous Polymerization Occur?
Hazardous polymerization will not occur.

Conditions to Avoid / Polymerization: N/A

Is the Product Stable?
Yes, under normal handling and storage conditions.
Conditions to Avoid/stability
Heat, Flame, Other sources of ignition, Light, Air.

11. Toxicological Information

Toxicity Data:
N/A

Reproductive effects:
N/A.

Target organ Effects:
Eyes, Skin, Digestive.

Carcinogenicity: No

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS #</th>
<th>% W/V</th>
<th>NTP Carcinogen</th>
<th>IARC</th>
<th>OSHA</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Known</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Anticipated</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12. Ecological Information

Environmental Fate / Stability:
N/A

Effect of Material on plants or animals:
N/A

Effect of Chemical on Aquatic Life:
N/A

13. Disposal Considerations

EPA Waste Number and Proper Waste Disposal Method:
Please consult local, state and federal regulations for additional guidance on disposal.

14. Transportation Information

Is this Material Hazardous? Not regulated under transportation regulations.

<table>
<thead>
<tr>
<th>Proper Shipping Name</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard Class Number</td>
<td>N/A</td>
</tr>
<tr>
<td>Packing Group</td>
<td>N/A</td>
</tr>
<tr>
<td>UN Number</td>
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</tr>
</tbody>
</table>

15. Regulatory Information

NA.

16. Other Information

NA => NOT APPLICABLE or NO INFORMATION