Section 1 Chemical Product and Company Identification

1.1 Product identifiers
   Product name: 2283-A Green Soluble Wax

1.2 Relevant identified uses of the substance or mixture and uses advised against
   Identified uses: N/A

1.3 Details of the supplier of the safety data sheet
   Freeman Manufacturing and Supply Company
   1101 Moore Road, Avon, OH 44011
   Phone (440) 934-1902
   FAX (440) 934-7200

1.4 Emergency telephone number
   Emergency Phone (800) 424-9300

Section 2 Hazards Identification

2.1 Classification of the substance or mixture
   Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements
   Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS
   None.

Section 3 Composition/Information on Ingredients

3.1 Substance
   Proprietary mixture of waxes.
   No ingredients are hazardous according to OSHA criteria.
   No components need to be disclosed according to the applicable regulations.

Section 4 First Aid Measures

4.1 Description of first aid measures
   **If inhaled**
   Move person into fresh air. If not breathing, give artificial respiration.
   **In case of skin contact**
   Wash off with soap and plenty of water.
   **In case of eye contact**
   Flush eyes with water as a precaution.
   **If swallowed**
   Never give anything by mouth to an unconscious person. Rinse mouth with water.

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 any immediate medical attention and special treatment needed
   No data available.
2283-A Green Soluble Wax

Section 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
   Nature of decomposition products not known.

5.3 Advice for firefighters
   Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information
   No data available.

Section 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
   Avoid dust formation. Avoid breathing vapors, mist or gas.
   For personal protection see section 8.

6.2 Environmental precautions
   Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
   Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7 Handling and Storage

7.1 Precautions for safe handling
   Use normal precautions when handling hot molten liquid solutions. Do not breathe fumes or vapor from heated material. Do not allow hot material to contact skin. Provide appropriate exhaust ventilation at places where dust is formed. Try to avoid creating dust.

7.2 Conditions for safe storage, including any incompatibilities
   Store at ambient temperatures in closed containers. This material can catch fire if overheated. Do not heat this material above the flash point. Keep away from flame and open electrical coils. No chemical incompatibilities.

Section 8 Exposure Controls/Personal Protection

8.1 Control parameters
   Components with workplace control parameters
   Wax Fume
   ACGIH STEL: 2 mg/m³
   NIOSH TWA: 2 mg/m³

8.2 Exposure controls
   Appropriate engineering controls
   Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits (see below). An eye wash station and safety shower should be located near the workstation.

8.3 Personal protective equipment
   Eye/face protection
   Use a full-face shield and safety glasses if handling heated material. With product at ambient temperatures, use safety glasses equipped with side shields.
Section 8 Exposure Controls/Personal Protection cont.

8.4 Skin protection
   Hand Protection
   When handling product at elevated temperatures, use heat-resistant gloves. With product at
   ambient temperatures, use disposable nitrile, neoprene or butyl rubber gloves with repeated or
   prolonged use.
   Body Protection
   Prevent skin contact when handling heated material. Use insulated, heat resistant clothing such
   as apron or slicker suit.

8.5 Respiratory Protection
   The need for respiratory protection is not anticipated under normal use conditions and with
   adequate ventilation. If elevated airborne concentrations above applicable workplace exposure
   levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist
   prefilter should be used.

8.6 Safety Stations
   Make emergency eyewash stations, safety/quick-drench showers, and washing facilities
   available in work area.

8.7 General Hygienic Practices
   Avoid breathing dust, vapor or mist. Avoid contamination of food, beverages, or smoking
   materials. Wash thoroughly after handling, and before eating, drinking or smoking. Remove
   contaminated clothing promptly and clean thoroughly before reuse.

Section 9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Green solid</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Ring and Ball Softening Point</td>
<td>138°F</td>
</tr>
<tr>
<td>VOC Content</td>
<td>0</td>
</tr>
<tr>
<td>Initial boiling point &amp; boiling range</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash Point (COC)</td>
<td>565°F (296°C)</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper/lower flammability</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density (g/cc)</td>
<td>1.2 ±0.1</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Soluble</td>
</tr>
<tr>
<td>Coefficient: n-octanol/ water</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>1550 cps @ 170°F</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>None</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>None</td>
</tr>
<tr>
<td>% Volatile</td>
<td>0</td>
</tr>
</tbody>
</table>
## Section 10 Stability and Reactivity

10.1 Reactivity  
None.

10.2 Chemical stability  
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions  
None.

10.4 Conditions to avoid  
Heat and open flames.

10.5 Incompatible materials  
None.

10.6 Hazardous decomposition products  
Thermal oxidative decomposition can produce CO and CO₂.

## Section 11 Toxicological Information

11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>Effect</th>
<th>Data Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Inhalation</td>
<td>No data available</td>
</tr>
<tr>
<td>Dermal</td>
<td>No data available</td>
</tr>
<tr>
<td>Skin corrosion/irrititation</td>
<td>No data available</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>No data available</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>No data available</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td></td>
</tr>
<tr>
<td>IARC</td>
<td>No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.</td>
</tr>
<tr>
<td>ACGIH</td>
<td>No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.</td>
</tr>
<tr>
<td>NTP</td>
<td>No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen.</td>
</tr>
<tr>
<td>OSHA</td>
<td>No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.</td>
</tr>
</tbody>
</table>

| Reproductive toxicity                 | No data available       |
| Specific target organ toxicity        | No data available       |
| - single exposure                     | No data available       |
| Specific target organ toxicity        | No data available       |
| - repeated exposure                   | No data available       |
| Aspiration hazard                     | No data available       |

## Section 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 Results of PBT & vPvB assessment   | No data available       |
Section 13 Disposal Considerations

13.1 Disposal
Use safety containers for disposal. Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

Section 14 Transport Information

14.1 Shipping Name:
- DOT: Not regulated
- TDG: Not regulated
- IMDG: Not regulated
- IATA: Not regulated

Section 15 Regulatory Information

15.1 US Federal Regulations
- RCRA Hazardous Waste Number (40 CFR 261.33): Not listed
- RCRA Hazardous Waste Classification (40 CFR 261): Not classified
- CERCLA Hazardous Substance (40 CFR 302.4): Listed/unlisted specific per RCRA Sec. 3001
- SARA 311/312 Codes: No hazard categories identified
- SARA Toxic Chemical (40 CFR 372.65): No components were identified
- TSCA Inventory Status: All ingredients listed on TSCA inventory requirements

15.2 State Regulations
This product is not known to contain any components for which the State of California has found to cause cancer, birth defects or other reproductive harm.

Section 16 Other Information

16.1 Disclaimer
The following supersedes Buyer's documents. SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict of liability arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled lab work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.