

**Section 1 Identification**

**1.1 Product identifiers**

Product name: 2-S738 Green Sprue

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Identified uses: Sprue wax

**1.3 Details of the supplier of the safety data sheet**

Freeman Manufacturing and Supply Company  
 1101 Moore Road, Avon, OH 44011  
 (440) 934-1902  
 www.freemansupply.com

**1.4 Emergency telephone number**

CHEMTREC (800) 424-9300

**Section 2 Hazards Identification**

**2.1 Classification of the substance or mixture**

Not classified according to OSHA 29 CFR 1910.1200 HCS

**2.2 GHS Label elements, including precautionary statements**

No label element(s) required

**2.3 Hazards not otherwise classified**

Molten product can cause serious burns.

**Section 3 Composition/Information on Ingredients**

**3.1 Mixture of Substances**

Proprietary mixture of waxes, additive(s) and/or oil soluble dye(s).  
 No components need to be disclosed according to the applicable regulations.

**Section 4 First Aid Measures**

**4.1 Description of first aid measures**

**Inhalation** Get medical assistance if irritation develops or persists. If breathing is difficult, move the person to fresh air. Give artificial respiration if person is not breathing.

**Skin contact** For thermal burns, flush or submerge effected area in cold water to dissipate heat. Cover with clean bandage material. Do not peel material from skin. Get medical attention.

**Eye contact** For contact at ambient temperatures, wash with soap and water. Immediately flush with plenty of water for at least 15 minutes. If irritation persists, get medical attention immediately.

**Ingestion** If swallowed, rinse mouth with water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Consult a physician if necessary.

**Section 5 Fire Fighting Measures**

**5.1 Extinguishing media**

**Suitable extinguishing media:** Water fog, dry chemical, foam, carbon dioxide.  
**Unsuitable extinguishing media:** Do not use a solid water stream as it may scatter and spread fire.

**5.2 Special hazards arising from the substance or mixture**

**Unusual Fire and Explosion Hazards:** Molten material can create slippery conditions. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. This is an unlikely scenario but users should be aware of the risk.  
**Hazardous Combustion Products:** Carbon dioxide, carbon monoxide, complex hydrocarbons, irritating smoke.

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

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### Section 6 Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing fumes. Avoid contact with skin and eyes. Wear appropriate personal protective equipment.

#### 6.2 Environmental precautions

Should not be released into the environment. Prevent product from entering drains.

#### 6.3 Methods and materials for containment and cleaning up

Allow molten material to cool. Contain spillage and use clean non-sparking tools to collect material. Shovel spillage into suitable container for disposal.

### Section 7 Handling and Storage

#### 7.1 Precautions for safe handling

Wear appropriate personal protective equipment. Avoid contact with skin and eyes. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Do not use in areas without adequate ventilation. Avoid breathing fumes. Avoid contact with molten material.

**Specific end use(s):** Avoid heating above 100°C (212°F) during the normal investment casting process (except dewax operations). Do not let molten product stand unused in melt tanks and injection machines. Stir product at all times.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store at ambient temperatures in closed containers. Keep away from ignition sources, heat, open flames, and direct sunlight. Do not heat above flash point. This material can catch fire if overheated. Do not store with incompatible materials: strong oxidizing agents.

### Section 8 Exposure Controls/Personal Protection

#### 8.1 Control parameters

##### Exposure Limits/Guideline

Substance Name	Exposure Limit	Sources
Wax fumes	2 mg/m <sup>3</sup> TWA	NIOSH REL / ACGIH TLV

#### 8.2 Exposure controls

##### Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory and eye protection may be needed in special circumstances, such as poorly ventilated spaces, very hot processing, mechanical generation of dusts, etc.

#### 8.3 Personal protective equipment

##### Eye/Face

Wear safety glasses equipped with side shields, or safety goggles.

##### Hands

Wear thermally resistant gloves and long sleeves if handling molten product.

##### Skin/Body

Prevent skin contact, wear long sleeves and/or coveralls.

##### Respiratory

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, use an air-purifying respirator. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

##### Safety Stations

Make emergency eyewash stations and washing facilities available in work area.

##### General Hygienic Practices

Avoid breathing dust, vapor or mist. Wash thoroughly after handling. Remove contaminated clothing promptly and clean thoroughly before reuse. Avoid contamination of food, beverages, or smoking.

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### Section 9 Physical and Chemical Properties

#### 9.1 Information on basic physical and chemical properties

<b>Physical State:</b>	Solid
<b>Color:</b>	Green
<b>Odor:</b>	Mild
<b>Odor Threshold:</b>	No data available
<b>pH:</b>	Not applicable
<b>Melting Point:</b>	Approximately 161°F (72°C)
<b>Boiling Point:</b>	No data available
<b>VOC Content:</b>	0
<b>Flash Point:</b>	>365°F (185°C)
<b>Evaporation Rate:</b>	No data available
<b>Flammability (solid, gas):</b>	No data available
<b>Lower Explosion Limit:</b>	No data available
<b>Upper Explosion Limit:</b>	No data available
<b>Vapor Density:</b>	No data available
<b>Specific Gravity:</b>	Approximately 0.932 at 20°C
<b>Water Solubility:</b>	Insoluble
<b>Partition Coefficient: n-octanol/water:</b>	No data available
<b>Auto-Ignition Temperature:</b>	No data available
<b>Viscosity:</b>	Solid at room temperature
<b>Explosive Properties:</b>	Not explosive
<b>Oxidizing Properties:</b>	Not an oxidizer

### Section 10 Stability and Reactivity

<b>10.1 Reactivity:</b>	No dangerous reaction known under conditions of normal use.
<b>10.2 Chemical stability:</b>	Stable under recommended storage conditions.
<b>10.3 Possibility of hazardous reactions:</b>	Hazardous polymerization does not occur.
<b>10.4 Conditions to avoid:</b>	Heat, sparks, open flame. Avoid dust formation.
<b>10.5 Incompatible materials:</b>	Strong oxidizing agents.
<b>10.6 Hazardous decomposition products</b>	In case of fire hazardous decomposition products may be produced: carbon monoxide, carbon dioxide, irritating smoke.

### Section 11 Toxicological Information

#### 11.1 Information on toxicological effects

<b>Acute toxicity</b>	No data available
<b>Inhalation</b>	Wax fumes have been reported to be irritating to the respiratory tract, especially to sensitized persons.
<b>Dermal</b>	Molten product will cause thermal burns on contact
<b>Skin corrosion/irritation</b>	No data available
<b>Serious eye damage/eye irritation</b>	Molten product will cause thermal burns on contact
<b>Respiratory or Skin Sensitization</b>	Classification criteria not met
<b>Germ Cell Mutagenicity</b>	Classification criteria not met
<b>Carcinogenicity</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by IARC, NTP, or OSHA.
<b>Reproductive Toxicity</b>	Classification criteria not met
<b>Specific Target Organ Toxicity (STOT)</b>	
<b>Single Exposure</b>	No data available
<b>Repeated Exposure</b>	No data available
<b>Aspiration Hazard</b>	Not relevant

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### Section 12 Ecological Information

12.1 Toxicity	Not expected to be harmful to aquatic organisms
12.2 Persistence and degradability	Expected to be inherently biodegradable
12.3 Bioaccumulative potential	No data available
12.4 Mobility in soil	Expected to partition to sediment and wastewater solids
12.5 Results of PBT & vPvB assessment	No data available

### Section 13 Disposal Considerations

**13.1 Disposal**  
Follow applicable Federal, State, and local regulations.

### Section 14 Transport Information

**14.1 DOT, TDG, IMO/IMDG, IATA/ICOA:** Not regulated

### Section 15 Regulatory Information

**15.1 Safety, health and environmental regulations/legislation specific for the product**  
**Inventories:** This product complies with the following inventories: Australia AICS, Canada DSL/NDSL, China IECSC, Japan ENCS, Korea KECI, New Zealand NZIOC, Philippines PICCS, USA TSCA  
**SARA Title III, Section 302 Emergency Planning:** No chemicals in this material are subject to the reporting requirements.  
**SARA Title III, Section 311/312 Community Right-to-Know:** None  
**SARA Title III, Section 313 Toxic Chemical Release Inventory:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels.  
**Resource Conservation and Recovery Act (RCRA):** In the form delivered, this product is not considered as hazardous waste, and is not subject to reporting under the Resource Conservation and Recovery Act.  
**California Prop. 65:** 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.

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