

**Section 1 Identification**

**Product Identifiers**

Product name: Ferris® Sticky Wax – Yellow, Ferris® Sticky Wax Beads Yellow,

**Relevant Identified Uses of the Substance or Mixture and Uses Advised Against**

Identified uses: Specialty wax

**Details of the Supplier of the Safety Data Sheet**

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

**Emergency telephone number**

CHEMTREC (800) 424-9300

**Section 2 Hazards Identification**

**Classification of the substance or mixture**

Not classified according to OSHA 29 CFR 1910.1200 HCS

**GHS Label elements, including precautionary statements**

No label element(s) required

**Hazards not otherwise classified**

Molten product can cause serious burns.

**Section 3 Composition/Information on Ingredients**

Proprietary mixture of synthetic waxes, and resins.  
 No components need to be disclosed according to the applicable regulations.

**Section 4 First Aid Measures**

- Inhalation** Exposure to fumes, vapors, or smoke of overheated molten product handled in confined areas can result in irritation of the respiratory tracts, and possible discomfort to sensitive individuals. Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.
- Skin Contact** Wash with soap and water. Molten product – Cool affected areas with running water to remove heat. Do not remove adhering material - it may be necessary to cut through material surrounding a limb to prevent a tourniquet effect. Seek medical attention urgently.
- Eye Contact** Exposure to fumes, vapors, or smoke of overheated product can result in irritation to eyes. Wash eye out immediately with water. If easy to do, remove contact lenses. Get medical attention if symptoms persist. If molten material contacts the eye, immediately flush with plenty of running water for at least 15 minutes, holding eyelid open. Do not remove adhering material. Seek medical attention immediately.
- Ingestion** Do not induce vomiting. Seek medical attention.

**Section 5 Fire-Fighting Measures**

**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.

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

**Unusual Fire and Explosion Hazards:** None known.

**Hazardous Combustion Products:** Carbon dioxide, carbon monoxide, irritating smoke.

**Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**Section 6 Accidental Release Measures**

**Personal Precautions, Protective Equipment, and Emergency Procedures**

For personal protection see section 8.

**Environmental Precautions**

Should not be released into the environment. Do not let product enter drains.

**Methods and Materials for Containment and Cleanup**

Solid Product: Sweep up the spilled material. If it is contaminated, collect in a suitable container for disposal.

**Section 7 Handling and Storage**

**Safe Handling**

Use only in a well-ventilated area and avoid breathing fumes and dust (dust is unlikely). Avoid skin and eye contact, especially with the molten material. Do not eat, drink, or smoke while using product.

**Safe Storage**

Keep product closed in its original packaging until used. Keep dry; avoid temperature extremes and direct sunlight. Keep away from sources of ignition, oxidizing agents and other chemicals.

**Specific End Use**

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.

**Section 8 Exposure Controls/Personal Protection**

**Components with Workplace Control Parameters**

Wax Fume ACGIH STEL: 2 mg/m<sup>3</sup> NIOSH TWA: 2 mg/m<sup>3</sup>

**Appropriate Engineering Controls**

Good general ventilation should be used. If applicable, use local exhaust ventilation or other engineering controls to maintain airborne levels of dust (solid product), fume, or vapor (molten product) below recommended exposure limits.

**Eye/Face Protection**

Appropriate eye protection should be worn when handling slabs and pellets, when injecting the product and when assembling patterns. A full-face shield is recommended for operations involving the transfer of molten product, i.e. refilling press reservoirs

**Skin Protection**

When handling product at elevated temperatures, use heat-resistant gloves.  
 With product at ambient temperatures, use cotton gloves.

**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 pre-filter should be used.

**Safety Stations**

Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work areas.

**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**

<b>Appearance</b>	Waxy yellow solid
<b>Odor</b>	Mild
<b>Odor Threshold</b>	No data available
<b>pH</b>	No data available
<b>Melting Point</b>	No data available
<b>Boiling Point</b>	No data available
<b>Flash Point (Cleveland Open Cup)</b>	465°F (240°C)
<b>Evaporation Rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Upper/Lower Flammability</b>	No data available
<b>Vapor Pressure</b>	No data available
<b>Vapor Density</b>	No data available
<b>Specific Gravity</b>	0.9 ± 0.05
<b>Water Solubility</b>	Insoluble
<b>Solubility</b>	Soluble in common organic solvents
<b>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>	No data available
<b>Oxidizing Properties</b>	No data available

**Section 10 Stability and Reactivity**

<b>Reactivity</b>	None known
<b>Chemical Stability</b>	Stable as supplied under recommended storage conditions
<b>Possibility of Hazardous Reactions</b>	None known
<b>Conditions to Avoid</b>	The product is organic and will be subject to surface oxidation. Excessive thermal exposure will degrade the product.
<b>Incompatible Materials</b>	Strong oxidizing agents
<b>Hazardous Decomposition Products</b>	Thermal oxidative decomposition can produce carbon dioxide, carbon monoxide

**Section 11 Toxicological Information**

<b>Information on toxicological effects</b>	
<b>Acute Toxicity</b>	Not expected to be acutely toxic
<b>Skin Corrosion/Irritation</b>	Classification criteria not met
<b>Serious Eye Damage/Eye Irritation</b>	Classification criteria not met
<b>Respiratory Sensitization</b>	Classification criteria not met
<b>Skin Sensitization</b>	Not expected to cause skin sensitization
<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

**Section 12 Ecological Information**

<b>Toxicity</b>	No data available.
<b>Persistence and Degradability</b>	No data available.
<b>Bioaccumulative Potential</b>	No data available.
<b>Mobility in Soil</b>	No data available.
<b>Results of PBT &amp; vPvB Assessment</b>	No data available.

**Section 13 Disposal Considerations**

Dispose of used product, unwanted product, and related packaging in strict accordance with waste disposal legislation and any local authority requirements.

**Section 14 Transport Information**

<b>DOT, TDG, IMDG, IATA</b>	Not regulated.
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**Section 15 Regulatory Information**

**U.S. Federal Regulations**

EPCRA Section 302: This material contains no extremely hazardous substances.  
 SARA 311/312 Codes: No hazard categories identified  
 SARA 313: No components were identified  
 TSCA Inventory Status: All components of this product are listed or exempted from listing on the Toxic Substances Control Act (TSCA) inventory.

**California Proposition 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. [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**Section 16 Other Information**

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