

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	
Distributed By: Grobet File Company of America, LLC 750 Washington Avenue, Carlstadt, NJ 07072 US (201) 939-6700, www.grobetusa.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/m³ NIOSH TWA: 2 mg/m³

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

Appearance	Waxy yellow solid
Odor	Mild
Odor Threshold	No data available
pH	No data available
Melting Point	No data available
Boiling Point	No data available
Flash Point (Cleveland Open Cup)	465°F (240°C)
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Upper/Lower Flammability	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Specific Gravity	0.9 ± 0.05
Water Solubility	Insoluble
Solubility	Soluble in common organic solvents
Coefficient: n-Octanol/Water	No data available
Auto-Ignition Temperature	No data available
Viscosity	Solid at room temperature
Explosive Properties	No data available
Oxidizing Properties	No data available

Section 10 Stability and Reactivity

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

Section 11 Toxicological Information

Information on toxicological effects	
Acute Toxicity	Not expected to be acutely toxic
Skin Corrosion/Irritation	Classification criteria not met
Serious Eye Damage/Eye Irritation	Classification criteria not met
Respiratory Sensitization	Classification criteria not met
Skin Sensitization	Not expected to cause skin sensitization
Germ Cell Mutagenicity	Classification criteria not met
Carcinogenicity	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.
Reproductive Toxicity	Classification criteria not met
Specific Target Organ Toxicity (STOT)	
Single Exposure	No data available
Repeated Exposure	No data available
Aspiration Hazard	Not relevant

Section 12 Ecological Information

Toxicity	No data available.
Persistence and Degradability	No data available.
Bioaccumulative Potential	No data available.
Mobility in Soil	No data available.
Results of PBT & vPvB Assessment	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

DOT, TDG, IMDG, IATA	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.

Section 16 Other Information

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Date of Issue: May 1, 2015

Date of Last Revision: August 23, 2022