Safety Data Sheet



Ferris 1467A Dark Red

Section 1 Identification		
 Product identifiers Product name: Ferris Bead 1467A Dark Red, 14 Relevant identified uses of the substance or mixtual Identified uses: Sculpture wax for use in precise Uses advised against: None known Details of the supplier of the safety data sheet Freeman Manufacturing & Supply Company 1101 Moore Road, Avon, OH 44011 Telephone (440) 934-1902 Email contactus@freemansupply.com 	e and uses advised against	HMIS H 1 F 1 R 0 PPE Sec. 8
Section 2 Haz	zards Identification	
Classification of the substance or mixture Not a hazardous substance or mixture under G GHS Label elements, including precautionary state None Hazards not otherwise classified (HNOC) or not cov None known	ments	
Section 3 Composition	/Information on Ingredients	
Proprietary mixture of synthetic waxes, resins, and oil soluble dyes. No ingredients are hazardous according to OSHA criteria. No components need to be disclosed as per 29CFR Part 1910.1200.		
Section 4 F	irst Aid Measures	
 Description of first aid measures Inhalation: Exposure to fumes, vapors, or smoareas can result in irritation of the respiratory Move to fresh air. Treat symptomatically. Get n Skin Contact: Wash with soap and water. Molt remove heat. In general, do not remove adherin surrounding a limb to prevent a tourniquet effective Eye Contact: Exposure to fumes, vapors, or sma Any material that contacts the eye should be w contact lenses. Get medical attention if sympto immediately flush with plenty of running water remove adhering material. Seek medical attent Ingestion: Do not induce vomiting. Seek medical mediate removal from skin is not necessary Indication of Immediate Medical Attention and Spe Hazards: Contact with molten product may cau Treatment: Treat symptomatically. 	tracts, and possible discomfort to sensitive nedical attention if symptoms persist. The product – Cool affected areas with run ing material - it may be necessary to cut the ect. Seek medical attention urgently. Toke of overheated product can result in it ashed out immediately with water. If easy ms persist. If molten material contacts the r for at least 15 minutes, holding eyelid of ion immediately. cal attention. material will come off as healing occurs; cial Treatment	ve individuals. ning water to rough material critation to eyes. v to do, remove e eye, pen. Do not



Safety Data Sheet

Ferris 1467A Dark Red

Section 5 Fire-Fighting Measures

Extinguishing media			
Suitable extinguishing media: Water mist, foam, dry chemical or carbon dioxide			
Unsuitable extinguishing media: Solid water stream may scatter and spread fire			
Special hazards arising from the substance or mixture			
Molten material can create slippery conditions. In case of fire hazardous decomposition products may be			
produced such as: Carbon dioxide, carbon monoxide and complex hydrocarbons. As with most solid organic			
compounds, a high dust concentration of this product may form an explosive atmosphere, subject to			
ignition by heat and static discharge. This is an unlikely scenario but users should be aware of the risk.			
Advice for firefighters			
In the event of fire and/or explosion do not breathe fumes. Wear self-contained breathing apparatus and			
protective suit.			
•			
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 cleaning up			
Sweep up and shovel spilled material into suitable containers for disposal.			
Section 7 Handling and Storage			
Precautions for 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 whilst using this product.			
Conditions for safe storage, including any incompatibilities			
Keep product closed in its original packaging until used. Keep dry; avoid temperature extremes (keep			
between 5 & 30°C / 41 & 86°F) and direct sunlight. Keep away from sources of ignition, oxidizing agents			
and other chemicals.			
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.			
operations). Do not let molen product stand anased in melt anno and injection machines.			
Section 8 Exposure Controls/Personal Protection			
Control noramotors			
Control parameters			
Components with workplace control parameters			
The following may be released from the product in a molten state			
Paraffin Wax Fume CAS # 8002-74-2 NIOSH TWA: 2 mg/m ³			
Exposure controls			
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.			
Personal protective equipment			



Section 8 Exposure Controls/Personal Protection

 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 prefilter should be used. Other Protective Measures Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area. 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 Odor Odor threshold pH Melting point Boiling point Flash point (Cleveland Open Cup) Evaporation rate Flammability (solid, gas) Upper/lower flammability Vapor pressure Vapor density Specific gravity Water solubility Solubility Coefficient: n-octanol/ water Auto-ignition temperature Viscosity	Waxy dark red solid Mild No data available No data available Approximately 63.3°C (146.0°F) No data available >185°C (365°F) No data available No data available No data available No data available No data available No data available No data available Insoluble Soluble in common organic solvents No data available No data available Soluble in common organic solvents	
Sectio	on 10 Stability and Reactivity	
Reactivity Chemical Stability Possibility of Hazardous Reactions Conditions to Avoid Incompatible Materials Hazardous Decomposition Products	None known Stable as supplied under recommended storage conditions None known The product is organic, and will be subject to surface oxidation. Avoid holding the product in the molten state when not in use. Excessive thermal exposure will degrade the product. Strong oxidizing agents Thermal oxidative decomposition can produce carbon dioxide, carbon monoxide	



Ferris 1467A Dark Red

Section 11 Toxicological Information

	8	
Acute toxicity	No data available	
Inhalation	Wax fumes have been reported to be irritating to the respiratory	
	tract, especially to sensitized persons.	
Dermal	Molten product will cause thermal burns on contact	
Skin corrosion/irritation	No data available	
Serious eye damage/eye irritation		
Respiratory or skin sensitization	No data available	
Germ cell mutagenicity	No data available	
Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.	
Reproductive toxicity	No data available	
Specific Target Organ Toxicity		
Single Exposure:	No data available.	
Repeated Exposure:	No data available.	
Aspiration Hazard	No data available.	
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 specific ecological information has been determined for this product. However, the product is insoluble in water and should not pose a serious threat to the environment. Users should ensure that the product is stored, handled and disposed of in such a manner that it is not released to the environment. Spent material from the flash fire furnace or autoclave must be stored in such a manner as to prevent environmental contamination, either by solid product or rain water run-off from it.		
Section 13 Disposal Considerations		
Disposal		
Disposal 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	
Section 15 Regulatory Information		
US 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		



Ferris 1467A Dark Red

Section 15 Regulatory Information

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 chemicals known to the State of California to cause cancer, birth defects, or reproductive harm. For more information, visit www.P65Warnings.ca.gov.

Section 16 Other Information

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.

Issue Date: October 20, 2022