

Section 1 Identification

Product Identifiers

Product name: 2-AB55 R Art Bronze Wax Brown - Soft

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

Identified uses: Wax for use in the art bronze industry

Uses advised against: None known

Details of the Supplier of the Safety Data Sheet

Freeman Manufacturing & Supply Company

1101 Moore Road, Avon, OH 44011

Phone (440) 934-1902

contactus@freemansupply.com

Emergency Telephone Number

CHEMTREC (800) 424-9300

HMIS	
H	1
F	1
R	0
PPE Sec. 8	

Section 2 Hazards Identification

Classification of the Substance or Mixture

Not a hazardous substance or mixture under GHS/OSHA criteria.

GHS Label Elements, Including Precautionary Statements

None

Hazards Not Otherwise Classified (HNOC) or Not Covered by GHS

None known

Section 3 Composition/Information on Ingredients

Proprietary mixture of synthetic and natural 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.

Ingredient with Workplace Exposure Limits	CAS Number	Percent, w/w
Paraffin wax	8002-74-2	10-80

Section 4 First Aid Measures

Description of 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. In general, 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. Any material that contacts the eye should be washed 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.

Most Important Symptoms/Effects

Burns should be treated as thermal burns. The material will come off as healing occurs; therefore, immediate removal from skin is not necessary

Indication of Immediate Medical Attention and Special Treatment

Hazards: Contact with molten product may cause severe burns to skin and eyes.

Treatment: Treat symptomatically.

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

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.

Special Protective Equipment & Precautions for Fire-Fighters

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 Cleanup

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

Molten Product: Wear appropriate personal protective equipment – boots, eye protection, and heat resistant gloves. Attempt to contain the spill by making dams with sand or earth. A water mist can be used to cool a spill but take extreme care when doing so. Allow the spill to solidify before collecting the material for disposal. Do not let molten product enter drainage channels.

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 whilst using this product.

Safe Storage

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.

Section 8 Exposure Controls/Personal Protection

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/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.

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 pre-filter 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	Waxy brown solid
Odor	Mild
Odor Threshold	No data available
pH	No data available
Melting Point	Approximately 79.6°C (175.3°F)
Boiling Point	No data available
Flash Point (Cleveland Open Cup)	>185°C (365°F)
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	No data available
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

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. Avoid holding the product in the molten state when not in use. 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

Eye Contact	Molten product will cause thermal burns on contact with the eyes.
Skin Contact	Molten product will cause thermal burns on contact with the skin.
Inhalation	Wax fumes have been reported to be irritating to the respiratory tract, especially to sensitized persons.
Ingestion	No data available.
Acute Toxicity	No data available.
Skin Corrosion/Irritation	No data available.
Serious Eye Damage/Irritation	No data available.
Respiratory Sensitization	No data available.
Skin Sensitization	No data available.
Germ Cell Mutagenicity	No data available.
Carcinogenicity	No data available.
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 data available.

*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 rainwater run-off from it.

Section 13 Disposal Considerations

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

ADR/RID, IMDG, IATA, DOT, TDG 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

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

⚠ WARNING: This product may expose you to chemicals including Naphthalene and alpha-Methylstyrene, which are known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov.

Chemical Name	CAS Number	Concentration (%)	No Significant Risk Level (NSRL)
Naphthalene	91-20-3	<0.00005 (estimated)	5.8 µg/day
alpha-Methylstyrene	98-83-9	<0.001 (estimated)	Not established

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: November 12, 2021
 Revision Date: November 18, 2022