

### 2-AB56 R Art Bronze Wax Brown - Soft

### **Section 1 Identification**

# **Product Identifiers**

Product name: 2-AB56 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.



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# **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.

### **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.

# **Section 7 Handling and Storage continued**

### 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/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.



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# **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 ThresholdNo data availablepHNo data available

**Melting Point** Approximately 79.6°C (175.3°F)

Boiling Point

Flash Point (Cleveland Open Cup)

Evaporation Rate

Flammability (solid, gas)

Upper/Lower Flammability

Vapor Pressure

Vapor Density

No data available
No data available
No data available
No data available

**Specific Gravity** Approximately 0.94 (20°C)

Water Solubility Insoluble

**Solubility** Soluble in common organic solvents

**Coefficient: n-Octanol/Water Auto-Ignition Temperature**No data available

**Viscosity** Approximately 35 cP. (140°F)

# **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



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# **Section 11 Toxicological Information**

Eye ContactMolten product will cause thermal burns on contact with the eyes.Skin ContactMolten product will cause thermal burns on contact with the skin.InhalationWax fumes have been reported to be irritating to the respiratory tract,

especially to sensitized persons.

No data available. Ingestion **Acute Toxicity** No data available. Skin Corrosion/Irritation No data available. No data available. Serious Eve Damage/Irritation **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**

ToxicityNo data available.Persistence and DegradabilityNo data available.Bioaccumulative PotentialNo data available.Mobility in SoilNo data available.Results of PBT & vPvB AssessmentNo data available.

### **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

<sup>\*</sup>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.



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# **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

MARNING: 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

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