

#### **Section 1 Identification**

**Product identifiers** 

Product name: Protowax

Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Specialty tooling wax, machinable investment casting wax

Details of the supplier of the safety data sheet

Freeman Manufacturing and Supply Company

1101 Moore Road, Avon, OH 44011

(440) 934-1902

contactus@freemansupply.com

1.4 Emergency telephone number

CHEMTREC (800) 424-9300

#### Section 2 Hazards Identification

#### Classification of the substance or mixture

Not a hazardous substance or mixture.

### GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

### Hazards not otherwise classified (HNOC) or not covered by GHS

None known

### Section 3 Composition/Information on Ingredients

#### Mixture

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.

#### **Section 4 First Aid Measures**

### **Description of first aid measures**

**Inhalation** Get medical assistance if irritation develops or persists. If breathing is difficult,

move the person to fresh air. Give artificial respiration if person is not breathing.

**Skin contact** For thermal burns, flush or submerge effected area in cold water to dissipate heat.

Cover with clean bandage material. Do not peel material from skin. Get medical attention.

For contact at ambient temperatures, wash with soap and water.

**Eve contact** Immediately flush with plenty of water for at least 15 minutes.

If irritation persists, get medical attention immediately.

**Ingestion** If swallowed, rinse mouth with water. Never give anything by mouth to an unconscious person.

Do NOT induce vomiting. Consult a physician if necessary.

## **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.

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#### **Section 6 Accidental Release Measures**

### Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Avoid breathing vapors, mist or gas. Wear appropriate personal protective equipment, see Section 8.

## **Environmental precautions**

Should not be released into the environment. Prevent product from entering drains.

#### Methods and materials for containment and cleaning up

Contain spillage and use clean non-sparking tools to collect material.

Shovel spillage into suitable container for disposal.

### **Section 7 Handling and Storage**

#### **Precautions for safe handling**

Use normal precautions when handling hot molten liquid solutions. Do not breathe fumes or vapor from heated material. Do not allow hot material to contact skin. Provide appropriate exhaust ventilation at places where dust is formed. Try to avoid creating dust.

### Conditions for safe storage, including any incompatibilities

Store at ambient temperatures. Keep away from ignition sources, heat, open flames, and direct sunlight. Do not store with incompatible materials, see Section 10.

### Section 8 Exposure Controls/Personal Protection

### **Control parameters**

### **Exposure Limits/Guideline**

Substance Name	Limit / Standard	Source
Wax fumes	2 mg/m <sup>3</sup> TWA	ACGIH

### **Exposure controls**

### **Appropriate engineering controls**

Good general ventilation (typically 10 air changes per hour) should be used. Supplementary local exhaust ventilation, closed systems, or respiratory and eye protection may be needed in special circumstances, such as poorly ventilated spaces, very hot processing, mechanical generation of dusts, etc.

#### Personal protective equipment

### Eye/Face

Wear safety glasses equipped with side shields, or safety goggles. Use a full-face shield and safety glasses if handling heated material.

### Hands

Wear thermally resistant gloves and long sleeves if handling molten product.

# Skin/Body

Prevent skin contact, wear long sleeves and/or coveralls.

#### Respiratory

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, use an air-purifying respirator. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

### **Safety Stations**

Make emergency eyewash stations and washing facilities available in work area.

#### **General Hygienic Practices**

Avoid breathing dust, vapor or mist. Wash thoroughly after handling. Remove contaminated clothing promptly and clean thoroughly before reuse. Avoid contamination of food, beverages, or smoking.



### **Section 9 Physical and Chemical Properties**

**Appearance** Red solid

**Odor** None to slight petroleum

Odor threshold No data available No data available рH **Melting point** Approximately 151°F **Initial boiling point** No data available Flash point (COC) 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 densityNo data availableRelative density (g/cc) $0.90 \pm 0.05$ Water solubilityInsoluble

**Coefficient: n-octanol/ water**Auto-ignition temperature
No data available

**Viscosity** Solid at room temperature

**Explosive properties**Oxidizing properties
% Volatile
None
0

### **Section 10 Stability and Reactivity**

**Reactivity:** No dangerous reaction known under conditions of normal use.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: Hazardous polymerization does not occur.

Conditions to avoid: Heat, sparks, open flame. Avoid dust formation.

**Incompatible materials:** Strong oxidizing agents.

**Hazardous decomposition products** In case of fire hazardous decomposition products may be produced:

carbon monoxide, carbon dioxide, irritating smoke.

### **Section 11 Toxicological Information**

Information on toxicological effects

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** Molten product will cause thermal burns on contact

**Respiratory or skin sensitization Germ cell mutagenicity**No data available
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 toxicityNo data availableSTOT - single exposureNo data availableSTOT - repeated exposureNo data availableAspiration hazardNo data available



## **Section 12 Ecological Information**

Toxicity
Persistence and degradability
Bioaccumulative potential
No data available
No data available

Mobility in soil No data available

**Results of PBT & vPvB assessment**No data available

### **Section 13 Disposal Considerations**

**Disposal** Follow applicable Federal, state, and local regulations.

### **Section 14 Transport Information**

DOT, TDG, IMO/IMDG, IATA/ICOA: Not regulated

### **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 United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

## **U.S. State Regulations**

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.

### **Section 16 Other Information**

#### Disclaimer

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