

**Section 1 Identification**

**Product identifiers**

Freeman Brown Core Vent Wax

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

Tooling and foundry wax. For professional and industrial use.

**Details of the supplier of the safety data sheet**

Freeman Manufacturing & Supply Company  
 1101 Moore Road, Avon, OH 44011-4043 USA  
 Telephone: +1 800-321-8511  
 Email: contactus@freemansupply.com

**24 Hour emergency telephone number:**  
**CHEMTREC (800) 424-9300**

**Section 2 Hazards Identification**

**GHS Classification of the substance or mixture**

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Label elements**

None.

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

None known.

**Section 3 Composition/Information on Ingredients**

**Mixture**

Proprietary mixture of synthetic waxes, and oil soluble dyes.  
 No components are classified as hazardous, and therefore do not need to be disclosed

**Section 4 First Aid Measures**

**Description of first aid measures**

**If inhaled:** 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.

**In case of 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.

**In case of 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.

**If swallowed:** Do not induce vomiting. Seek medical attention.

**Most important symptoms and effects, both acute and delayed**

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 any immediate medical attention and special treatment needed**

Contact with molten product may cause severe burns to skin and eyes. Treat symptomatically.

**Section 5 Fire-Fighting Measures**

**Extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).  
 Do not use water jet as an extinguisher, as this will spread the 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 do not breathe fumes. Wear self-contained breathing apparatus and protective suit.

**Section 6 Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures**

Keep unnecessary personnel away. Avoid dust formation. Avoid breathing vapors, mist or gas. 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**

If material is molten, allow to cool. Use caution, as material may still be hot after solidification. Spilled material will solidify. Allow to solidify. Scrape up. Shovel 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. Avoid creating dust (dust is unlikely).

**Conditions for safe storage**

Keep product closed in its original packaging until used. Storage temperature: 41-86°F (5-30°C). Avoid temperature extremes, moisture, and direct sunlight. Keep away from sources of ignition, oxidizing agents and other chemicals. Avoid heating above 100°C (212°F) during the normal process (except dewax operations).

**Section 8 Exposure Controls/Personal Protection**

**Components with workplace control parameters**

| Component                    | Value  | Basis                   |
|------------------------------|--|-------------------------|
| Inert or Nuisance Dust       | 5 mg/m <sup>3</sup> - Respirable fraction.<br>15 mg/m <sup>3</sup> - Total dust. | OSHA PEL<br>Table Z-3   |
| Paraffin wax (CAS 8002-74-2) | 2 mg/m <sup>3</sup> - Fume   | ACGIH TLV<br>8-hour TWA |

**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 continued**

**Personal Protective Equipment (PPE)**

**Eye/face protection:** Use a full-face shield and safety glasses if handling heated material.

With product at ambient temperatures, use safety glasses equipped with side shields.

**Skin protection:** When handling product at elevated temperatures, use heat-resistant gloves. Prevent skin contact when handling heated material. With product at ambient temperatures, use disposable gloves with repeated or prolonged use.

**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.

**Safety Stations**

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

**General Hygienic Practices**

Avoid breathing vapor. Wash thoroughly after handling, and before eating, drinking or smoking.

Remove contaminated clothing promptly and clean before reuse.

**Section 9 Physical and Chemical Properties**

|                                      |                           |
|--------------------------------------|---------------------------|
| <b>Appearance</b>                    | Brown solid               |
| <b>Odor</b>                          | None to slight petroleum  |
| <b>Odor threshold</b>                | No data available         |
| <b>pH</b>                            | Not applicable            |
| <b>Melting point</b>                 | Approximately 170°F       |
| <b>Boiling point</b>                 | No data available         |
| <b>Flash point</b>                   | >365°F (>185°C)           |
| <b>Evaporation rate</b>              | No data available         |
| <b>Flammability (solid, gas)</b>     | No data available         |
| <b>Upper/lower flammability</b>      | No data available         |
| <b>Vapor pressure</b>                | No data available         |
| <b>Vapor density</b>                 | No data available         |
| <b>Relative density</b>              | 0.90 ±0.05                |
| <b>Water solubility</b>              | Negligible                |
| <b>Coefficient: n-octanol/ water</b> | No data available         |
| <b>Auto-ignition temperature</b>     | No data available         |
| <b>Decomposition temperature</b>     | No data available         |
| <b>Viscosity</b>                     | Solid at room temperature |
| <b>Explosive properties</b>          | None                      |
| <b>Oxidizing properties</b>          | None                      |
| <b>% Volatile</b>                    | 0                         |

**Section 10 Stability and Reactivity**

**Reactivity:** The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability:** Material is stable under normal conditions.

**Possibility of hazardous reactions:** No dangerous reaction known under conditions of normal use.

**Conditions to avoid:** Dust formation. Heat, flames and sparks. Contact with incompatible materials.

**Incompatible materials:** Strong oxidizing agents. Amines. Fluorine.

**Hazardous decomposition products:** Carbon monoxide. Carbon dioxide. Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

**Section 11 Toxicological Information**

**Acute toxicity values**

None established

**Information on toxicological effects**

**Inhalation:** Wax fumes may be irritating to the respiratory tract,

**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:** No data available

**Germ cell mutagenicity:** No data available

**Reproductive toxicity:** 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.

**Specific Target Organ Toxicity (STOT) - single exposure:** No data available

**Specific Target Organ Toxicity (STOT) - repeated exposure:** No data available

**Aspiration hazard:** No data available

**Section 12 Ecological Information**

**Ecotoxicity:** This product is not classified as environmentally hazardous.

**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 of the product should, however, ensure that it 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 therefore 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**

Contact a licensed contractor for detailed recommendations.

Follow all applicable regulations, including Federal, State, and local.

**Section 14 Transport Information**

**DOT:** Not regulated as dangerous goods.

**TDG:** Not regulated as dangerous goods.

**IMDG:** Not regulated as dangerous goods.

**IATA:** Not regulated as dangerous goods.

**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.

**Section 15 Regulatory Information**

**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.

**Section 16 Other Information**

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