

Material Safety Data Sheet

Freeman Machinable Wax

Date of Preparation: November 16, 2009

Section 1 Chemical Product and Company Identification

Product/Chemical Name: Freeman Machinable Wax
Chemical Family: Wax
CAS Number: N/A
Other Designations: N/A
General Use: N/A
Manufacturer: Freeman Manufacturing and Supply Company, 1101 Moore Road, Avon, OH 44011
Phone (440) 934-1902, FAX (440) 934-7200, Hours of Operation 8-5,
Emergency phone number 1-800-424-9300

HMIS	
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PPE Sec.8.	

Section 2 Composition/Information on Ingredients

Proprietary Mixture
Within the definition of Hazardous Materials according to OSHA Standard 29 CFR 1910.1200 (c), this product is not hazardous

Section 3 Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Warning! Hot wax can cause burns to eyes and skin. When handling hot wax, use heat-protective gloves and other PPE to protect against thermal burns. Spills may create a slipping hazard.

Potential Health Effects

Primary Entry Routes: Inhalation (when the product is thermally degraded)

Target Organs: Upper respiratory tract.

Acute Effects/Chronic Effects:

Solid product: Acute and chronic health effects are not expected as long as good industrial hygiene and safety precautions are followed.

Hot molten product:

Inhalation: At elevated temperatures dense fumes may develop which can cause respiratory tract irritation and other breathing disorders.

Eye: Contact with hot product will cause burns to the eyes.

Skin: Skin contact with hot material may result in severe burns.

Ingestion: No significant adverse effects are anticipated. If swallowed in large quantities, this material can obstruct the intestine.

Carcinogenicity: IARC, NTP, and OSHA do not list any components as carcinogens.

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Section 4 First Aid Measures

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen and/or artificial respiration.

Eye Contact: Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get medical attention if irritation persists. HOT MOLTEN product: Cool burns with plenty of low-pressure water. Get immediate medical attention.

Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists. HOT MOLTEN product: Immediately cool skin with water and cold packs for at least 15 minutes. Do NOT put ice directly on the skin. Do NOT attempt to remove solidified wax from the skin as severe tissue damage may result. Get immediate medical attention. See Note to Physician.

Ingestion: Not an ingestion hazard under anticipated conditions of use. For accidental ingestion: If conscious, drink one to two glasses of water (8-16 oz.). Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to an unconscious person.

Note to Physicians: For HOT MOLTEN or HOT LIQUID product: Material should not be forcibly pulled from the skin. Mineral oil may be used to loosen and soften the material.

Section 5 Fire Fighting Measures

Flash Point: 575 °F (302°C)

Flash Point Method: COC

LEL: Not established

UEL: Not established

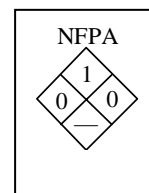
Extinguishing Media: CO₂, foam, water fog, and dry chemical.

Unusual Fire or Explosion Hazards: None.

Hazardous Combustion Products: CO, CO₂, smoke, fumes.

Fire-Fighting Instructions: Wear protective clothing to prevent contact with skin and eyes. Do not release runoff from fire control methods to sewers or waterways.

Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.



Section 6 Accidental Release Measures

Spill/Leak Procedures: Stop spill at source. Dike area and contain. Clean up remainder with absorbent materials such as sand or vermiculite. Mop up and dispose of.

Section 7 Handling and Storage

Handling Precautions: 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. With the product at ambient temperatures, avoid creating and breathing dust. Wash thoroughly after handling.

Storage Requirements: Store at ambient temperatures in closed containers. This material can catch fire if overheated. Do not heat this material above the flash point. Keep away from flame and open electrical coils.

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Section 8 Exposure Controls/Personal Protection

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits (see below). An eye wash station and safety shower should be located near the work-station.

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.

Protective Clothing/Equipment:

Hand Protection: When handling product at elevated temperatures, use heat-resistant gloves. With product at ambient temperatures, use disposable nitrile, neoprene or butyl rubber gloves with repeated or prolonged use.

Body Protection: Prevent skin contact when handling heated material. Use insulated, heat-resistant clothing such as apron or slicker suit.

Eye 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.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

General Hygienic Practices: 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.

Occupational Exposure Guidelines:

Substance: Paraffin Wax Fume

ACGIH STEL: 2 mg/m³

NIOSH TWA: 2 mg/m³

Section 9 Physical and Chemical Properties

Physical State: Solid

Appearance and Odor: Varies in color, faint odor.

Vapor Density (Air=1): Not available

Specific Gravity (H₂O=1, at 4 °C): 0.92

Water Solubility: Insoluble in cold water

Boiling Point: >450° F

Freezing/Melting Point: Softening Point by Ring and Ball Apparatus ASTM E28-58T:225°F.

% Volatile: Negligible

Section 10 Stability and Reactivity

Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: Hazardous polymerization will not occur.

Conditions to Avoid: Heat and open flames.

Hazardous Decomposition Products: Thermal oxidative decomposition can produce CO and CO₂.

Section 11 Toxicological Information

No known evidence of adverse effects from available information

Carcinogenicity: IARC, NTP, and OSHA do not list any components as carcinogens

Section 12 Ecological Information

No Known evidence of adverse effects from available information

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Section 13 Disposal Considerations

Disposal: Use safety containers for disposal. Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations

Section 14 Transport Information

DOT Transportation Data (49 CFR 172.101):

Shipping Name Non-Regulated

Section 15 Regulatory Information

US Federal Regulations:

RCRA Hazardous Waste Number: Not listed (40 CFR 261.33)

RCRA Hazardous Waste Classification (40 CFR 261.): Not classified

CERCLA Hazardous Substance (40 CFR 302.4) listed/unlisted specific per RCRA, Sec. 3001; CWA, Sec. 311 (b)(4);

CWA, Sec. 307(a), CAA, Sec. 112: Not listed.

SARA 311/312 Codes: No hazard categories identified.

SARA Toxic Chemical (40 CFR 372.65): No components were identified

TSCA Inventory Status: All ingredients listed on TSCA inventory requirements.

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: 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.