

Material Safety Data Sheet

Freeman Optical Soluble Wax

Date of Preparation: 8/23/06

Revision:

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Freeman Optical Soluble Wax

Chemical Formula: N/A

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 800-424-9300.

HMIS

H 0

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PPE[†]

[†]Sec. 8

☆☆☆☆ 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.

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 - Physical and Chemical Properties

Physical State: Solid

Appearance and Odor: Very light yellow solid, faint odor

Vapor Pressure: Nil

Vapor Density (Air=1): >1

Specific Gravity (H₂O=1, at 4 °C): 1.21

Water Solubility: Soluble

Other Solubilities: N/A

Boiling Point: >200 C (Decomposes)

Freezing/Melting Point: Softening Point by Ring and Ball
Apparatus ASTM E28-58T: 140 F.

% Volatile: Negligible

Section 4 - Fire-Fighting Measures

Flash Point: 565 °F

Flash Point Method: COC

Autoignition Temperature: N/A

LEL: N/D

UEL: N/D

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

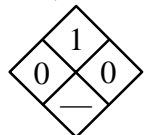
Unusual Fire or Explosion Hazards: None.

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.

NFPA



Section 5 - Stability and Reactivity

Stability: Stable at room temperature 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 6 - Health Hazard Information

Potential Health Effects

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

Target Organs: Upper respiratory tract.

Acute Effects/Chronic Effects: On solid product, acute and chronic health effects are not expected as long as good industrial hygiene and safety precautions are followed.

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 this product as a carcinogen.

Emergency and First Aid Procedures

Inhalation: HOT MOLTEN product: Get medical attention if nasal, throat or lung irritation develops.

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: 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. Water may be used to loosen and soften the material.

Section 7 - Spill, Leak, and Disposal Procedures

Spill /Leak Procedures: No special precautions necessary. If product is not contaminated, scoop into clean containers for use. If product is contaminated, scoop into containers and dispose appropriately. If molten, allow to cool and scrape up. Refer to Section 8, Personal Protective Equipment and General Hygiene Practices.

Disposal: Burn in an approved incinerator or place in an approved landfill. Follow applicable Federal, state, and local regulations.

EPA 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: The components of this product are listed on the Toxic Substances Control Act (TSCA) inventory.

State Regulations:

California Proposition 65: This product contains trace levels of Acetaldehyde, 1,4-Dioxane and Formaldehyde known to the State of California to cause cancer, and Ethylene Oxide known to the State of California to cause cancer, birth defects, or other reproductive harm.

Chemical	CAS #	Upper bound Concentration %
Acetaldehyde	75-07-0	0.0006
1,4 Dioxane	123-91-1	0.0005
Ethylene Oxide	75-21-8	0.0005
Formaldehyde	50-00-0	0.0004

Note: If this product is handled with adequate ventilation, the presence of these trace elements is not expected to result in any short or long term hazard.

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:

Nuisance Dust	10 mg/m3	TWA8 ACGIH	Inhalable Particulate
	3 mg/m3	TWA8 ACGIH	Respirable fraction
	5 mg/m3	TWA8 OSHA	Respirable fraction
	15 mg/m3	TWA8 OSHA	Total dust

Section 9 - Special Precautions and Comments

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.

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Not Regulated

Shipping Symbols:

Hazard Class:

ID No.:

Label:

Packing Group:

Packaging Authorizations

a) **Exceptions:**

b) **Non-bulk Packaging:**

c) **Bulk Packaging:**

Quantity Limitations

a) **Passenger, Aircraft, or Railcar:**

b) **Cargo Aircraft Only:**

Vessel Stowage Requirements

a) **Vessel Stowage:**

b) **Other:**

Prepared By:

Revision Notes:

Disclaimer: Although the information and recommendations set forth in this MSDS are presented in good faith and are believed to be correct as of the date of this MSDS, Freeman Manufacturing & Supply Company makes no representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will Freeman Manufacturing & Supply Company or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the MSDS.