

Material Safety Data Sheet

Freeman 90-1 Yellow Pattern Coating

Date of Preparation: January 13, 2010

Section 1 Chemical Product and Company Identification

Product/Chemical Name: Freeman 90-1 Yellow Pattern Coating
Chemical Family: 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 1-800-424-9300

HMIS	
H	2
F	3
R	0
PPE Sec.8.	

Section 2 Composition/Information on Ingredients

Ingredient Name	CAS Number
Amyl Acetate	628-63-7
VM&P Naphtha	64742-89-8
Isopropyl Alcohol	67-63-0
Methyl Ethyl Ketone	78-93-3
Toluene	108-88-3
Methyl Isobutyl Ketone	108-10-1
Isobutyl Alcohol	78-83-1
n-Butyl Acetate	123-86-4
Isopropyl Acetate	108-21-4
Xylene	1330-20-7
Ethyl Benzene	100-41-4

Ingredient	OSHA PEL		ACGIH TLV		Vapor Pressure
	TWA	STEL	TWA	STEL	
Amyl Acetate	100 ppm	none estab.	100 ppm	none estab.	4 mm Hg @ 68°F
VM&P Naphtha	300 ppm	none estab.	300 ppm	none estab.	10.2 mm Hg @ 68°F
Isopropyl Alcohol	400 ppm	none estab.	400 ppm	none estab.	33 mm Hg @ 68°F
Methyl Ethyl Ketone	200 ppm	none estab.	200 ppm	none estab.	78 mm Hg @ 68°F
Toluene	100 ppm	none estab.	50 ppm	none estab.	26 mm Hg @ 68°F
Methyl Isobutyl Ketone	100 ppm	none estab.	50 ppm	none estab.	16 mm Hg @ 68°F
Isobutyl Alcohol	100 ppm	none estab.	50 ppm	none estab.	8.8 mm Hg @ 68°F
n-Butyl Acetate	150 ppm	none estab.	150 ppm	none estab.	13 mm Hg @ 68°F
Isopropyl Acetate	250 ppm	none estab.	250 ppm	none estab.	47 mm Hg @ 68°F
Xylene	100 ppm	none estab.	50 ppm	none estab.	14.2 mm Hg @ 100°F
Ethyl Benzene	100 ppm	none estab.	100 ppm	none estab.	7.1 mm Hg @ 68°F

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Section 3 Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Flammable. Irritant, Inhalation

Potential Health Effects

Primary Entry Routes: Skin; Inhalation from vapors.

Acute Effects:

Inhalation: Vapor concentrations above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anesthetic and may have other central nervous system effects, such as staggering gait, confusion, unconsciousness and coma

Eye: Irritating.

Skin: Frequent or prolonged contact may irritate and cause dermatitis.

Ingestion: Small amounts of the liquid aspirated into the respiratory system during ingestion, or from vomiting, may cause bronchiopneumonia or pulmonary edema.

Health Hazards (Acute and Chronic): Pre-existing heart disorders may be aggravated by exposure to this material.

Caution: Toluene - may be harmful to the fetus based on laboratory animal studies.

Carcinogenicity: IARC has classified ethyl benzene to be a Class 2B suspect human carcinogen

Medical Conditions Aggravated by Long-Term Exposure: Any medical condition, allergy, or sensitization can become worse upon exposure

Section 4 First Aid Measures

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

Eye Contact: Flush with plenty of water for 15 minutes and get medical attention.

Skin Contact: Wash thoroughly with soap and water. Remove contaminated clothing and launder before reuse.

Destroy contaminated shoes.

Ingestion: Do not induce vomiting. Keep at rest. Get medical attention.

Section 5 Fire Fighting Measures

Flash Point: 23 °F (-5 °C)

Flash Point Method: TCC

LEL: 0.9 % v/v

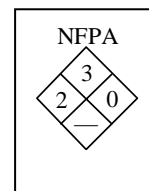
UEL: 20 % v/v

Extinguishing Media: Foam, CO₂, or dry chemical

Fire-Fighting Equipment: Use self-contained breathing apparatus. Water spray may be ineffective.

Use fog nozzles. Cool fire exposed containers with water

Fire and Explosion Hazards: Decomposition and combustion products may be toxic.



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Section 6 Accidental Release Measures

Spill /Leak Procedures: Stop spill at source. Remove all sources of ignition. Use non-sparking tools. 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 & Storage: Use with adequate ventilation. Avoid prolonged breathing of vapor. Avoid prolonged or repeated contact with skin. Wear safety goggles or face shield. Wear gloves, apron and footwear impervious to this material. Wash clothing before reuse. Store at ambient temperatures. Keep container tightly closed and upright when not in use to prevent leakage.

Section 8 Exposure Controls/Personal Protection

Ventilation: Local exhaust recommended. General mechanical is acceptable. Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2).

Respiratory Protection: Use a NIOSH approved respirator when vapor/mist exposure is likely.

Eye Protection: Wear splash-proof chemical goggles.

Skin Protection: Wear impermeable gloves.

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

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9 Physical and Chemical Properties

Appearance and Odor: Yellow liquid. Strong solvent odor.

Specific Gravity (H₂O=1, at 4 °C): 0.96

VOC: 5.1 lbs/gal

Water Solubility: Negligible

Boiling Point: 175 to 288 °F

Freezing/Melting Point: Not determined

Evaporation Rate (N-Butyl Acetate = 1): Not Determined

Section 10 Stability and Reactivity

Stability: Stable.

Polymerization: Hazardous polymerization will not occur.

Chemical Incompatibilities: Strong oxidizing agents

Conditions to Avoid: Heat, sparks and flame

Hazardous Decomposition Products: Carbon dioxide, carbon monoxide and oxides of nitrogen

Section 11 Toxicological Information

Acute Inhalation Exposure Effects: Respiratory irritant. Central nervous system effects

Skin Irritation: Irritant.

Eye Irritation: Irritant, will injure eye tissue.

Carcinogenicity: IARC has classified ethyl benzene to be a Class 2B suspect human carcinogen

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Section 12 Ecological Information

No Known evidence of adverse effects from available information

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: Paint
Shipping Symbols:
Hazard Class: 3
ID No.: UN 1263
Packing Group: II
Label: Flammable Liquid

Special Provisions (172.102): Section 15 Regulatory Information

US Federal Regulations:

OSHA (Occupational Safety and Health Act): This Material Safety Data Sheet has been prepared in compliance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200. This product is considered to be a hazardous chemical under that standard.

RCRA (Resource Conservation and Recovery Act): Not a hazardous waste under RCRA (40 CFR 261).

SARA 311/312 Codes: Fire. Immediate Health.

SARA Toxic Chemical (40 CFR 372.65): This product contains the following toxic chemical subject to the reporting requirements of Section 313 of SARA Title III of 1986 and of 40 CFR 372

None

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

State Regulations: California Proposition 65 Toluene (CAS # 108-88-3) is listed as a developmental hazard
Ethyl benzene (CAS # 100-41-4) is listed as a carcinogen

Listed on the following states Right to Know Lists:

Materials on the New Jersey Right to Know List: Amyl acetate, isopropyl alcohol, methyl ethyl ketone, toluene; isobutyl alcohol, xylene and ethyl benzene

Materials on the Pennsylvania Right to Know List: Amyl acetate, isopropyl alcohol, methyl ethyl ketone, toluene; isobutyl alcohol, xylene and ethyl benzene

Materials on the Massachusetts Right to Know List: Amyl acetate, isopropyl alcohol, methyl ethyl ketone, toluene; isobutyl alcohol, xylene and ethyl benzene

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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.