

Material Safety Data Sheet

Fre-Sealer (PVC)

Date of Preparation: January 29, 2007

Revision:

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Fre-Sealer (PVC)

Chemical Family: Coating

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 2

F 3

R 0

PPE[†]

[†]Sec. 8

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Flammable, Irritant, Inhalation

Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt or % vol
Toluene	108-88-3	45-65
Methyl Ethyl Ketone	78-93-3	10-15
Methyl Isobutyl Ketone	108-10-1	10-15
Diocetyl Phthalate (DOP)	117-81-7	<5
Medium Aliphatic Solvent Naphtha	64742-88-7	<5

Ingredient	OSHA		ACGIH		Vapor Pressure	
	TWA	STEL	TWA	STEL	MmHg	@Temp °F
Medium Aliphatic Solvent Naphtha	100 ppm	none estab.	100 ppm	5 mg/m ³	200	68
Toluene	100 ppm	none estab.	50 ppm	5 mg/m ³	26	68
Methyl Ethyl Ketone	200 ppm	none estab.	200 ppm	5 mg/m ³	78	68
Methyl Isobutyl Ketone	100 ppm	none estab.	50 ppm	5 mg/m ³	16	68
Diocetyl Phthalate (DOP)	5 mg/m ³	none estab.	5 mg/m ³	5 mg/m ³	1.2	200

Section 3 - Physical and Chemical Properties

Appearance and Odor: Green Liquid, Mild odor

Vapor Density (Air=1): Heavier than air

Coating V.O.C.: 5.84 lb/gal (700 g/l)

Material V.O.C.: 5.83 lb/gal (699 g/l)

Specific Gravity (H₂O=1, at 4 °C): 0.9

Water Solubility: <10% by volume

Boiling Range: 175°F-723°F

Evaporation Rate: Slower than ether

Section 4 - Fire-Fighting Measures

Flash Point: 25 °F (-4°C)

Flash Point Method: TCC

LEL: 0.3 %

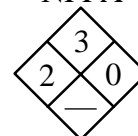
UEL: 14.4%

Extinguishing Media: Foam, alcohol foam, CO₂, dry chemical, water fog, other.

Special Fire-Fighting Procedures: Wear full protective clothing and self-contained breathing apparatus.

Water spray may be ineffective. Cool closed containers with water to prevent pressure build up and possible autoignition or explosion when exposed to extreme heat.

NFPA



Unusual Fire and Explosion Hazards: Keep containers tightly closed. Isolate from heat, sparks, open flames, and electrical equipment. Closed containers may explode when exposed to extreme heat. Do not apply to hot surfaces. Empty containers may contain explosive vapors. Do not cut or weld, grind, or drill, on or near full or empty containers.

Section 5 - Stability and Reactivity

Stability: Stable

Conditions to Avoid: Elevated temperatures.

Incompatibility (Materials to Avoid): Strong acids, strong alkalis, oxidizing agents, water, and catalysts.

Hazardous Decomposition or By-products: Carbon monoxide and carbon dioxide, hydrogen chloride (above 150°C).

Hazardous Polymerization: Will not occur under normal conditions.

Section 6 - Health Hazard Information

Potential Health Effects

Primary Entry Routes: Inhalation, skin, and ingestion

Health Risks and Symptoms of Exposure:

Inhalation: Irritation of upper respiratory tract and central nervous system depression. Symptoms include: confusion, dizziness, fatigue, headache, loss of balance and coordination, nausea, or unconsciousness.

Eye Contact: Severe irritation, tearing, redness, and blurred vision. Liquid penetrates shoes and leather causing delayed burns.

Skin Contact: Redness and cracking.

Skin Absorption: Skin absorption of some components is possible.

Ingestion: Swallowing can cause gastrointestinal irritation, nausea, vomiting, and diarrhea. There is a pulmonary aspiration hazard if this product is swallowed and vomiting occurs. This can result in chemical pneumonitis.

Health Hazards (Acute and Chronic)

Inhalation: Dizziness, headaches, loss of balance and coordination, nausea, unconsciousness, death.

Eye: Severe irritation and blurred vision, possible permanent eye damage if not removed promptly.

Skin: Defatting, redness, and dermatitis.

Ingestion: Nausea, vomiting and diarrhea.

Carcinogenicity: IARC lists both DOP (CAS # 117-81-7) and Toluene (CAS # 108-88-3) as class 3 carcinogens, which means that they cause cancer in animals, but not likely in humans.

Medical Conditions Generally Aggravated by Exposure: Pre-existing breathing difficulties and other respiratory disorders, headaches, dermatitis, and eye disorders.

Emergency and First Aid Procedures

Inhalation: Move person to fresh air. If breathing stops, give artificial respiration, administer oxygen if available. Get immediate medical assistance.

Eye Contact: Immediately flush eyes with cool water for 15 minutes, get medical assistance.

Skin Contact: Wash with soap and water, remove contaminated clothing, wash clothing before reuse, consult doctor if necessary.

Ingestion: Do not induce vomiting! Get medical assistance

Section 7 - Spill, Leak, and Disposal Procedures

Spill /Leak Procedures: Remove all sources of ignition, ventilate area, avoid breathing vapors, contain spill and remove with inert absorbent, use non-sparkling tools.

Waste Disposal method: Dispose of in accordance with local, state, and federal regulations. Do not incinerate closed containers, a violent explosion could occur. Use only a licensed disposal firm/facility.

Regulatory Information:

TSCA Inventory Status: All ingredients listed on TSCA Inventory.

State Regulations

California Proposition 65: Contains - Toluene, Dioctyl Phthalate

Revision:

Fre-Sealer (PVC)

Materials on the New Jersey Right to Know List: Methyl ethyl ketone, toluene; Dioctyl Phthalate
Materials on the Pennsylvania Right to Know List: Methyl ethyl ketone, toluene; Dioctyl Phthalate
Materials on the Massachusetts Right to Know List: Methyl ethyl ketone, toluene; Dioctyl Phthalate

Section 8 - Exposure Controls / Personal Protection

Ventilation: Provide general clean air dilution or local exhaust ventilation to keep the concentrations of fumes below lower explosive limits and exposure limits.

Respiratory Protection: Wear a properly fitted, NIOSH/MSHA approved, chemical/mechanical respirator to keep worker exposure below the time weighted threshold limit values. In confined or poorly ventilated areas, wear a NIOSH/MSHA approved, air line respirator or hood. Consult your local safety equipment supplier for approved respirators and fitting instructions.

Protective Gloves: Use impervious gloves to prevent skin contact.

Eye Protection: Splash proof goggles or face shield. *Do not wear contact lenses*.

Other Protective Clothing or Equipment: Chemical resistant apron, chemical resistant boots for spill clean up.

Work /Hygienic Practices: Wash hands before eating, smoking, or using the bathroom. Avoid skin contact.

Section 9 - Special Precautions and Comments

Precautions to be Taken in Handling and Storage: Do not store above 100°F. Ground containers when pouring or transferring, Keep away from heat spark and flame. Store containers upright to prevent leakage. Do not puncture or reuse containers. See OSHA 1910.106 for proper storage conditions. Prohibit smoking in areas this product is used. Keep out of reach of children. For industrial use only.

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Paint

Shipping Symbols:

Hazard Class: 3

ID No.: UN1263

Packing Group: II

Label: Flammable Liquid

Special Provisions (172.102):

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:

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.