

# Material Safety Data Sheet

## Freeman Thinner # 45

Date of Preparation: June 15, 2011

### Section 1 Chemical Product and Company Identification

**Product/Chemical Name:** Freeman Thinner # 45  
**Chemical Family:** Solvent  
**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	
<b>H</b>	3
<b>F</b>	3
<b>R</b>	0
<b>PPE</b> Sec.8.	

### Section 2 Composition/Information on Ingredients

Ingredient Name	CAS Number
★Toluene	108-88-3
VM&P Naphtha	64742-89-8
Isobutyl Acetate	110-19-0
Acetone	67-64-1
★Methanol	67-56-1
Isopropanol	67-63-0

★Indicates a HAP material.

Material	OSHA PEL		ACGIH TLV		Vapor Pressure
	TWA	STEL	TWA	STEL	
Toluene	200 ppm	none estab.	50 ppm	none estab.	22 mmHg @ 68°F
VM & P Naphtha	500 ppm	none estab.	300 ppm	none estab.	11 mmHg @ 68°F
Isobutyl Acetate	150 ppm	none estab.	150 ppm	none estab.	15 mmHg @ 68°F
Acetone	1000 ppm	none estab.	500 ppm	750 ppm	184 mmHg @ 68°F
Methanol	200 ppm	none estab.	200 ppm	250 ppm	98 mmHg @ 68°F
Isopropanol	400 ppm	none estab.	200 ppm	400 ppm	33 mmHg @ 68°F

### Section 3 Hazards Identification

#### ☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Flammable. Irritant, Inhalation

**Section 3 Hazards Identification** (continued)

**Potential Health Effects**

**Primary Entry Routes:** Skin; Inhalation from vapors.

**Inhalation:** Irritates respiratory tract. Acute overexposure can cause serious nervous system depression. Vapor harmful. Breathing vapor can cause irritation. Acute overexposure can cause damage to kidneys, blood, nerves, liver, and lungs. Repeated exposure over TLV can cause blindness.

**Eye & Skin Contact:** Primary irritation to skin, defatting, dermatitis. Absorption thru skin increases exposure. Primary irritation to eyes, redness, tearing, blurred vision. Liquid can cause eye irritation. Wash thoroughly after handling.

**Ingestion:** Can be fatal or cause blindness if swallowed. Cannot be made non-poisonous. POISON!! Can cause irreversible nervous system damage and death. Harmful or fatal if swallowed. Swallowing can cause abdominal irritation, nausea, vomiting and diarrhea.

**Medical Conditions Aggravated:** Persons with severe skin, liver or kidney problems should avoid use.

**Carcinogenicity:** IARC, NTP, and OSHA do not list any component as a carcinogen.

**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:** 2 °F (-16 °C) (lowest component)

**Flash Point Method:** TCC

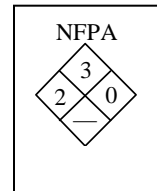
**LEL:** 2.1% v/v

**UEL:** Not determined

**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.



**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:** Clear liquid. Moderate solvent odor.

**Specific Gravity (H<sub>2</sub>O=1, at 4 °C):** 0.85

**VOC:** 7.01lbs/gal (100%)

**HAP:** 3.9 lb/gal (8%)

**Water Solubility:** Negligible

**Boiling Point:** 133-229°F (56-109°C)

**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

## Section 11 Toxicological Information

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

**Skin Irritant.**

**Eye:** May cause blindness

**Material**

**CAS #**

**Lowest Known Lethal Dose Data**

Methanol

67-56-1

1000.0 mg/kg (Man) Lowest Known LD50 (Oral)

Toluene

108-88-3

4000.0 mg/kg (Rabbits) Lowest Known LD50 (Skin)

## Section 12 Ecological Information

**Aquatic Animal Information:**

The most sensitive known aquatic group to any component of this product is:

Chub 250 ppm or mg/L (24 hour exposure). Keep out of sewers and natural water supplies.

**Degradability:** This product is partially biodegradable.

**Accumulation:** This product does not accumulate or biomagnify in the environment.

## 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.

**SARA Title III Section 313 Supplier Notification:** This product contains the indicated <\*> toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right-To-Know Act of 1986 & of 40 CFR This information must be included in all MSDSs that are copied and distributed for this material.

SARA TITLE III Ingredients	CAS #	Weight %	RQ (lbs)
Toluene	108-88-3	46	1000
Acetone	67-64-1	9	5000
Methanol	67-56-1	9	5000

**State Regulations:**

California Proposition 65: Contains - Toluene (CAS # 108-88-3) which is a known reproductive hazard, Materials on the New Jersey Right to Know List: Toluene, methanol , isopropyl alcohol, isobutyl acetate

Materials on the Pennsylvania Right to Know List: Toluene, methanol , isopropyl alcohol, isobutyl acetate

Materials on the Massachusetts Right to Know List: Toluene, methanol , isopropyl alcohol

**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.