

# Material Safety Data Sheet

## Freeman 90-1 Gray Mold-Seal Coating

Date of Preparation: March 9, 2009

Revision:

### Section 1 - Chemical Product and Company Identification

**Product/Chemical Name:** Freeman 90-1 Gray Mold-Seal 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 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
Amyl Acetate	628-63-7	10-20
Anhyd. Isopropyl Alcohol	67-63-0	10-20
Xylene *	1330-20-7	8-12
Methyl Ethyl Ketone *	78-93-3	< 10
Toluene *	108-88-3	< 10
Methyl Isobutyl Ketone *	108-10-1	< 5
VM&P Naphtha	64742-89-8	< 5
Ethylene Glycol Monobutyl Ether	111-76-2	< 5
Ethyl Benzene *	100-41-4	< 5

\* Indicates toxic chemicals subject to the reporting requirements of Section 313 of Title III and of 40 CFR 372.65

Ingredient	OSHA		ACGIH		Vapor Pressure	
	PEL	STEL	TLV	STEL	MmHg	@Temp°F
Amyl Acetate	100 ppm	none estab.	100 ppm	none estab.	4	68
Anhyd. Isopropyl Alcohol	400 ppm	none estab.	400 ppm	none estab.	33	68
VM&P Naphtha	300 ppm	none estab.	300 ppm	none estab.	10.2	68
Methyl Ethyl Ketone	200 ppm	none estab.	200 ppm	none estab.	78	68
Toluene	100 ppm	none estab.	50 ppm	none estab.	26	68
Methyl Isobutyl Ketone	100 ppm	none estab.	50 ppm	none estab.	16	68
Xylene	100 ppm	none estab.	50 ppm	none estab.	14.2	100
Ethylene Glycol Monobutyl Ether	25 ppm	none estab.	25 ppm	none estab.	0.66	68
Ethyl Benzene	100 ppm	none estab.	100 ppm	none estab.	7.1	68

### Section 3 - Physical and Chemical Properties

**Appearance and Odor:** Gray liquid, Strong solvent odor

**Coating VOC:** 5.39 lb/gal

**Material VOC:** 5.39 lb/gal

**Specific Gravity (H<sub>2</sub>O=1, at 4 °C):** 0.98

**Water Solubility:** Negligible

**Boiling Point:** 175°F - 464°F

**Evaporation Rate:** Slower than Ether

**Vapor Density (Air=1):** Heavier than air

**Section 4 - Fire-Fighting Measures****Flash Point:** 23 °F (-5° C)**Flash Point Method:** TCC**LEL:** 0.26% by volume**UEL:** 12% by volume**Extinguishing Media:** Foam, CO2, dry chemical**Unusual Fire and Explosion Hazards:** Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. Do not apply to hot surfaces.**Fire-Fighting Instructions:** Water spray may be ineffective. Use fog nozzles. Cool fire exposed containers with water.**Section 5 - Stability and Reactivity****Stability:** Stable under recommended handling and storage conditions.**Conditions to Avoid:** High temperatures, flames**Incompatibility (Materials to Avoid):** N/A**Hazardous Decomposition Products:** May produce hazardous fumes when heated. Carbon monoxide, oxides of nitrogen.**Hazardous Polymerization:** Will not occur.**Section 6 - Health Hazard Information****Potential Health Effects****Inhalation:** Anesthetic. Irritation of the respiratory tract or acute nervous system depression characterized by headache, dizziness, staggering gait, confusion, unconsciousness, or coma.**Skin and Eye Contact:** Primary irritation.**Skin:** Prolonged or repeated exposure to this material may cause redness and burning, during, and cracking of the skin and dermatitis. Person with pre-existing skin disorders may be more susceptible.**Ingestion:** Do not induce vomiting. Consult a physician or poison control center.**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, NTP, and OSHA do not list Freeman 90-1 Aluminum Mold-Seal Coating as a carcinogen. Contains very low levels of Benzene as an impurity either of Toluene or Xylene. Our MSDS on the products indicate the specific solvents present. Benzene is classified by the State of California as a cancer hazard.**Medical Conditions Aggravated by Long-Term Exposure:** Any medical condition, allergy, or sensitization can become worse upon exposure.**Emergency and First Aid Procedures****Inhalation:** Remove from exposure. Restore breathing. Keep warm and quiet. Notify a physician.**Eyes:** Flush immediately with large amounts of water for 15 minutes. See a physician.**Skin:** Wash affected areas thoroughly with soap and water. Remove contaminated clothing.**Ingestion:** Do not induce vomiting. Consult a physician or poison control center.**Section 7 - Spill, Leak, and Disposal Procedures****Spill /Leak Procedures:** Remove all sources of ignition. Ventilate area. Remove with inert absorbent and non-sparking tools.**Disposal:** Disposal in accordance with local, state, and federal regulation. Incinerate in approved facility. Do not incinerate closed containers. Emptied containers may retain hazardous residue and explosive vapors. Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

**Revision:**

**Freeman 90-1 Gray Mold-Seal Coating**

**State Regulations:**

California Proposition 65: Contains - Benzene, toluene, xylene and ethyl benzene  
Materials on the New Jersey Right to Know List: Amyl acetate, isopropyl alcohol, methyl ethyl ketone, toluene, xylene and ethyl benzene

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

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

**Regulatory Information:**

TSCA Inventory Status: All ingredients listed on TSCA Inventory.

**Section 8 - Exposure Controls / Personal Protection**

**Ventilation:** In restricted ventilation areas use Bureau of Mines approved chemical mechanical filters designed to remove a combination of particulate and gas/vapor. In confined areas use Bureau of Mines approved air line type respirator.

**Respiratory Protection:** In outdoor or open areas use Bureau of Mines approved mechanical filter respirator to remove solid air borne particles of overspray during spray application.

**Protective Gloves:** Wear resistant gloves such as: Natural rubber, or neoprene.

**Eye Protection:** Chemical splash goggles in compliance with OSHA regulation.

**Other Protective Clothing or Equipment:** To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

**Work/Hygienic Practices:** Wash hands before eating or using the washrooms, smoke in smoking areas only.

**Section 9 - Special Precautions and Comments**

**Handling and Storage:**

**Handling Precautions:** Ground containers when pouring. Avoid free fall of liquid in excess of a few inches. Do not flame cut, braze or weld.

**Storage Requirements:** Do not store above 120°F. Store large quantities in building designed and protected for storage of NFPA Class Liquids.

**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):**

**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:** 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.