

Material Safety Data Sheet

Freeman 1020 Tooling Foam Resin

Date of Preparation: January 3, 2007

Revision:

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Freeman 1020 Tooling Foam Resin

Chemical Formula: Mixture

CAS Number: N/A

Chemical Family: Epoxy Resin

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

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☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Irritant

Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number
Epoxy Resin	25068-38-6

Ingredient	OSHA PEL		ACGIH TLV	
	TWA	STEL	TWA	STEL
Epoxy Resin	none estab	none estab	none estab	none estab

Section 3 - Physical and Chemical Properties

Appearance and Odor: White epoxy foam with nominal odor

Vapor Pressure: N/A

Vapor Density (Air=1): >1

Specific Gravity (H₂O=1, at 4 °C): 0.48

Water Solubility: Nil

Boiling Point: N/A

% Volatile by volume (%): 0%

% Solid by weight: >99%

Section 4 - Fire-Fighting Measures

Flash Point: 420 °F (216°C)

Flash Point Method: TOC

LEL: Not Established

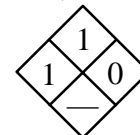
UEL: Not Established

Extinguishing Media: Water, fog, foam, dry chemical, CO₂.

Unusual Fire or Explosion Hazards: Container areas exposed to intense heat or flame should be cooled with water to prevent pressure build-up and/or weakening of container structure.

Special Fire-Fighting Procedures: Do not enter confined fire space without full protective gear including a positive pressure, self-contained NIOSH approved breathing apparatus. Cool fire exposed container with water.

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Section 5 - Stability and Reactivity

Stability: Stable

Conditions to Avoid: Avoid high temperatures, open flames and unscheduled contact with curing agents.

Incompatibility (Materials to Avoid): Incompatible with strong oxidizing agents, strong acids and bases, secondary aliphatic amines and mercaptans.

Hazardous Decomposition Products: Carbon dioxide (CO₂), carbon monoxide (CO), aldehydes, acids and other organic substances may be formed during high temperature degradation.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Avoid mixing resin and hardener in uncontrollable quantities.

Section 6 - Health Hazard Information

Potential Health Effects

Primary Entry Routes: Dermal

Effects of Overexposure:

Inhalation: Because of its low volatility this product is not likely to be an inhalation hazard.
Eye Contact: Product could be moderately irritating to the eyes. Avoid touching eyes when using this material.
Skin Contact: Product could be moderately irritating to skin. May cause allergic skin reaction in susceptible individuals. Avoid direct skin contact when using this material.
Ingestion: No adverse effects anticipated by this route of exposure incidental to proper industrial handling.
Carcinogenicity: IARC, NTP, and OSHA : This material is neither carcinogenic nor potentially carcinogenic.

Emergency and First Aid Procedures

Inhalation: Remove victim to fresh air.
Eyes: Flush eyes with generous amounts of water for at least 15 minutes. *GET MEDICAL ATTENTION* if it appears necessary.
Skin: Wash thoroughly with soap and water.
Ingestion: In general, no treatment is necessary unless large quantities of product are ingested.

Section 7 - Spill, Leak, and Disposal Procedures

Steps to be Taken in Case Material is Released or Spilled: Use cautious judgment when cleaning spills. Small spills may be collected with adsorbent material, such as clay or sand. Large spills should be diked and contained with absorbent materials. Flush area with water spray to remove residue. Dispose of flush legally.
Waste Disposal Methods: Dispose in accordance with local, state and federal regulations.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: N/A
Ventilation: Local exhaust is recommended. Mechanical exhaust can be used as a back up system.
Respiratory Protection: No respiratory protect should be needed.
Protective Gloves: Chemical resistant gloves such as PVA.
Eye Protection: NIOSH approved safety glasses or goggles with side shields.
Other Protective Clothing or Equipment: Chemical resistant clothing as required to minimize skin contact.

Section 9 - Special Precautions and Comments

Precautions to be Taken in Handling and Storage: Store at ambient temperatures in well ventilated area. Avoid sparks, open flames, and extreme heat. Store separately from amine curing agents. Protect container from physical damage.
Other Precautions: Container, even those that have been emptied, can contain product residues. Handle in accordance with good industrial practices. Avoid prolonged or repeated contact with skin. Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Launder contaminated clothing before use.

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Plastic Materials, Foam NOIBN	Packaging Authorizations	Quantity Limitations
Shipping Symbols:	a) Exceptions:	a) Passenger, Aircraft, or Railcar:
Hazard Class: Not Restricted	b) Non-bulk Packaging:	b) Cargo Aircraft Only:
ID No.:	c) Bulk Packaging:	Vessel Stowage Requirements
Packing Group:		a) Vessel Stowage:
Label:		b) Other:
Special Provisions (172.102):		

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