

Material Safety Data Sheet

Pro-Tech Products, Inc.

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PRODUCT IDENTIFICATION

Trade Name: Pro-Tech Urethane Foam-R**Chemical Family:** Polyol Resin System**Chemical Name:** Mixture**Formula:** N/A**Synonyms:** Polyurethane Resin**DATE PREPARED:** 6/8/09

INGREDIENTS - HAZARD CLASSIFICATION

Component	CAS NO.	%	PEL
1,1,1,3,3-pentafluoropropane (CF ₃ CH ₂ CHF ₂ or HFC-245FA)	460-73-1	<10	None Established 300 ppm TWA recommended
Trans-1,2-dichloroethylene	156-60-5	<3	200 ppm TWA
Tertiary Amine Catalysts ¹	Proprietary	<4	None Established

¹Not listed as a carcinogen (NTA, IARC, Osha)

SHIPPING INFORMATION

Not regulated when shipped by air, land, or water.

PHYSICAL DATA

Boiling Point: CF₃CH₂CHF₂, 60°F**Specific Gravity:** 1.2**Solubility in Water:** Slight**% Volatile by Volume:** 15**Appearance and Odor:** Amber liquid, ethereal odor.

FIRE AND EXPLOSION HAZARD DATA

Flashpoint: After CF₃CH₂, CHF₂ evaporation, > 200°F (P-M)**Flammable Limits (Vapor):** Lower: None; Upper: None**Extinguishing Media:** Water, dry chemicals, CO₂**Special Fire Fighting Procedures:** Self-contained breathing apparatus should be worn to protect against toxic and irritating vapors.**Unusual Fire and Explosion Hazards:** Overheated containers may rupture due to pressure produced by CF₃CH₂CHF₂. CF₃CH₂CHF₂ burns to form acids and noxious gases.

REACTIVITY DATA

Stability: Stable**Conditions to Avoid:** Temperatures over 85°F**Polymerization:** Will not occur.**Conditions to Avoid:** N/A**Incompatibility:** Isocyanates and other chemicals that react with hydroxyl groups.**Hazardous Decomposition Products:** When burned; CO, CO₂, NO_x, aliphatic fragments, halogens, halogen acids and possibly carbonyl halides.

HEALTH HAZARD DATA

Permissible Exposure Limit: None Established

Effects of Overexposure: May cause skin or eye irritation upon contact. Avoid breathing vapors. The dense vapors can displace and reduce breathing air in confined or unventilated spaces causing asphyxiation. Overexposure may cause tremors, confusion, irritation, and may result in cardiac sensitization.

EMERGENCY AND FIRST AID PROCEDURES

Eyes: Flush with large amounts of water for 15 minutes. Seek medical attention if irritation develops.
Skin: Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before re-use.
Inhalation: Move to fresh air if symptoms develop. If breathing is difficult, give oxygen and call physician.
Ingestion: Induce vomiting; get medical attention.

SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust ventilation is recommended when working this product. Uses requiring heating and/or spraying may require more ventilation or personal protective equipment.

Respiratory Protection: The specific respirator selected must be based on contamination levels of this material found in the workplace and the working limits of the respirator. A supplied air, full face mask, positive pressure or continuous flow respirator or a supplied air hood is required when airborne concentrations are unknown or exceed threshold limit values. A positive pressure, self contained breathing apparatus can be used in emergencies or other unusual situations. Full-face air purifying respirators equipped with organic vapor cartridges can be used in certain situations, see OSHA standard 29CFR 1910.134. All equipment must be NIOSH/MSHA approved and maintained.

Eye Protection: Goggles or chemical safety glasses.

Gloves: Chemically resistant rubber or plastic.

Other: Avoid eye and skin contact. Eye wash system and showers should be available.

SPILL OR LEAK PROCEDURES

Remove or extinguish ignition or combustion sources.

Contain spill. Absorb with sawdust, etc., and shovel into a container. Waste material should be disposed of under conditions which meet federal, state, and local environmental regulations.

Wash area with detergent and water.

SPECIAL PRECAUTIONS

Store between 65°F and 85°F and out of sunlight. Keep tightly sealed. Relieve pressure slowly when opening container. R Component drums can be sent to drum reconditioners or disposed of as ordinary industrial waste in compliance with pertinent regulations.

CAUTION: Under no circumstances should empty drums be burned or cut open with an electric or gas torch.

SARA 313 INFORMATION

This product contains the following chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986, EPCRA section 313 (40 CFR 372) and the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	<u>CERCLA</u>
<u>RQ</u>	<u>CONCENTRATION</u>	
Trans-1,2-dichloroethylene	156-60-5	1000 lbs.
		See Ingredients Section

