

Material Safety Data Sheet

Pro-Tech Products, Inc.

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PRODUCT IDENTIFICATION

Trade Name: Pro-Tech Urethane Foam-A**Chemical Family:** Aromatic Isocyanate**Chemical Name:** Polymethylene polyphenylisocyanate**Formula:** N/A**Synonyms:** Polymeric MDI**DATE PREPARED:** 6/8/09

INGREDIENTS - HAZARD CLASSIFICATION

Component	CAS NO.	%	PEL
Piphenylmethane diisocyanate (MDI) ¹	101-68-8	50	0.02 ppm ceiling
Higher polymers of similar structure	9016-87-9	50	None established

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

SHIPPING INFORMATION

Not regulated when shipped by air, land, or water when packaged in single containers of 5000 pounds or less.

PHYSICAL DATA

Boiling Point: 625°F**Specific Gravity:** 1.24**Solubility in Water:** Insoluble, reacts**% Volatile by Volume:** None**Appearance and Odor:** Brown liquid, slight aromatic odor.

FIRE AND EXPLOSION HAZARD DATA

Flashpoint: 390°F (P-M)**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:** At temperatures above 400°F, MDI can polymerize/decompose causing pressure build-up in closed containers and possibly rupture. Avoid water contamination in closed containers which may cause rupture (CO₂ is evolved).

REACTIVITY DATA

Stability: Stable**Conditions to Avoid:** Contamination with water**Polymerization:** May occur from contact with water, alcohols, glycols or other materials containing active hydrogen's.**Incompatibility:** Water, alcohols, amines, strong bases.**Hazardous Decomposition Products:** By high heat or fire; CO, CO₂, NO_x, benzene, toluene, aliphatic fragments, traces of HCN.

HEALTH HAZARD DATA

Permissible Exposure Limit: 0.02 ppm ceiling for MDI**Effects of Overexposure:** May cause skin or eye irritation upon contact. Inhalation of MDI vapors may cause

breathlessness, chest discomfort, coughing, and reduced pulmonary functions. Exposure may produce asthma-like symptoms, also may lead to allergic sensitivity.

EMERGENCY AND FIRST AID PROCEDURES

- Eyes:** Flush with large amounts of water for 15 minutes. Seek medical attention.
- 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:** Drink large amounts of water; get medical attention.

SPECIAL PROTECTION INFORMATION

Ventilation: MDI has a very low vapor pressure at room temperature. General/local ventilation typically control exposure levels very adequately. Uses requiring heating and/or spraying may require more aggressive engineering controls or personal protective equipment. Monitoring is required to determine engineering controls.

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

Contain spill. Absorb with sawdust, and shovel into open top drum. Decontaminate absorbent and spill area with 2% detergent/water solution. Let waste stand for 1 to 2 days, then dispose of waste in a licensed facility. Respiratory protection/ventilation is recommended during clean-up.

SPECIAL PRECAUTIONS

Store between 65°F to 85°F and out of sunlight. Keep tightly sealed to prevent moisture contamination. Relieve pressure slowly when opening container. Once opened, protect contents from water with dry atmosphere (-40°F dew point). If isocyanate becomes contaminated, do not reseal. Empty isocyanate drums or other containers should be decontaminated by filling with water or decontamination solution, preferably outdoors. Allow to stand for 24-48 hours, open to the atmosphere. **DO NOT SEAL DRUMS OR CONTAINERS.** Drain the drums and puncture to prevent reuse. Dispose of as ordinary industrial waste.

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>	
Methylene Bis Phenylisocyanate (Same as Diphenylmethane diisocyanate)	101-68-8	5000 lbs. See Ingredients Section
Polymeric Diphenylmethane diisocyanate	9016-87-9	n/a See Ingredients Section

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