

Corporate Office: 19500 Janacek Court, Brookfield, WI 53045 - (800) 307-9218 - (262) 787-0400 - Fax (262) 787-0500

**MATERIAL SAFETY DATA SHEET**

Trade name: VFI - 1007

CHEMICAL FAMILY: POLYURETHANE

TRANSPORTATION EMERGENCY ASSISTANCE / CALL CHEMTREC / 1 (800) 424 - 9300

NFPA HAZARD RATING

H - 2

F - 3

R - 1

PP - 2

DEGREE OF HAZARD: 4=EXTREME 3=HIGH 2=MODERATE 1=SLIGHT 0=INSIGNIFICANT

**SECTION II (HAZARDOUS SUBSTANCES)****HAZARDOUS INGREDIENTS**

	% BY WT	ACGIH TLV	ACGIH PEL	VAPOR PRESSURE
Polymeric MDI CAS# 9016-87-9 *	5-15	NOT LISTED		
Xylene CAS# 1330-20-7 and 100-41-4	60-75	100ppm	100ppm	6.0 mmHG

\* THIS CHEMICAL IS SUBJECT TO SARA TITLE III, SECTION 313 REPORTING

**SECTION III (PHYSICAL DATA)**

BOILING POINT: &gt;100°F

% VOLATILE BY VOLUME: 70.0%

VAPOR DENSITY (air=1): Heavier

WEIGHT PER GALLON: 8.15 lbs.

EVAPORATION RATE(ether=1): Slower

VAPOR PRESSURE: 6.0 mmHG

**SECTION IV (FIRE & EXPLOSION HAZARD DATA)**

FLASH POINT: Closed cup 79°F

EXTINGUISHING MEDIA: Foam, CO2, dry chemical, water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters must wear self-contained breathing apparatus and full protective clothing to prevent contact with toxic and/or irritating fumes. Do not spray pool fires directly; Do not extinguish flame at leak because possibility of explosive reignition exists.

UNUSUAL FIRE &amp; EXPLOSION HAZARD: Contamination with water will generate carbon dioxide gas with possible pressure build up in confined areas. Incomplete combustion may produce carbon monoxide. It is unlikely that this product will explode due to mechanical impact. Containers may burst under intense heat. Leaks of gas and liquid can readily form flammable mixtures at temperatures at or above flash point.

**SECTION V (HEALTH HAZARD DATA)**

EFFECTS OF OVEREXPOSURE: Inhalation of high concentrations may cause isocyanate sensitization. Skin contact can cause severe irritation, possible burns, defatting, and dermatitis. Eye contact causes severe irritation, redness, tearing and blurred vision.

EMERGENCY &amp; FIRST AID: If overcome by vapors, remove to fresh air and if breathing has stopped, give artificial respiration. Eye contact: Flush with water for at least 15 minutes and call a physician as soon as possible. Skin contact: Wash with soap and water and remove contaminated clothing. Ingestion: See a physician as soon as possible. Do not induce vomiting due to hazard of solvent aspiration and subsequent chemical pneumonitis.

## VFI-1007

**PRIMARY ROUTE OF ENTRY: Dermal or inhalation most likely.**

**MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:** Repeated exposure can cause allergic reaction with development of occupational asthma. Long term exposure to low vapor concentrations may cause chronically progressive pulmonary disease. Repeated skin contact can result in sensitization.

### SECTION VI (REACTIVITY DATA)

**STABILITY:** Stable

**CONDITIONS TO AVOID:** Heat, sparks, open flame and water contamination.

**INCOMPATIBILITY:** Water, liquid chlorine, concentrated oxygen, NaOH, amines, alkaline materials and organometallic compounds.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Burning may produce nitrogen oxides, hydrogen cyanide, carbon monoxide and/or carbon dioxide.

**HAZARDOUS POLYMERIZATION:** Will not occur.

### SECTION VII (SPILL OR LEAK PROCEDURES)

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Remove all sources of ignition. In enclosed areas, cleanup personnel should wear self contained breathing apparatus. Cover spills with sawdust, vermiculite, or other absorbent material. Add an equal volume of a 6% ammonia solution in water and allow to react for 10 minutes. Collect into open containers and add more solution. Cover loosely to vent carbon dioxide gas generated.

**WASTE DISPOSAL METHOD:** Dispose in accordance with local, state, and federal regulations.

### SECTION VIII (SPECIAL PROTECTION INFORMATION)

**RESPIRATION PROTECTION:** Use organic vapor canister for low concentrations. Use self contained breathing apparatus in enclosed areas involving higher vapor concentrations.

**VENTILATION(Local/Mechanical Exhaust):** Explosion proof mechanical equipment capable of keeping vapor concentration below the TLV.

**PROTECTIVE GLOVES:** Chemical resistant neoprene, nitrile-butadiene or butyl rubber gloves.

**EYE PROTECTION:** Safety goggles or face shield.

**OTHER PROTECTIVE EQUIPMENT:** Eye bath & safety shower should be available.

### SECTION IX (SPECIAL PRECAUTIONS & TOXICOLOGICAL PROPERTIES)

**SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING & STORING:** Keep containers closed and store in a cool dry place with adequate explosion proof ventilation. Keep away from heat, sparks, open flame and moisture. Open container should be blanketed with dry nitrogen before resealing if there is no moisture contamination. If water contamination is suspected, do not reseal. Ground equipment to prevent accumulation of static charge.

**TOXICOLOGICAL PROPERTIES:** The International Isocyanate Institute is currently sponsoring a lifetime study on polymeric MDI in rats for carcinogenicity. Monomeric MDI is positive for mutagenicity in the Ames assay. Oral LD50 (rats) is greater than 15800 mg/Kg. Dermal LD50 (rabbits) is greater than 7900 mg/Kg. Inhalation LC50 (rats - 2hr) is greater than 400 mg/M3 on dust of monomeric MDI. Harmful or fatal if swallowed. Vapor harmful. May cause skin or eye irritation.

**KEEP OUT OF REACH OF CHILDREN!!**

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