

# Material Safety Data Sheet

TC-820 PART A

Date of Preparation: 04/28/2003

Revision: 04/28/2003

## Section 1 - Chemical Product and Company Identification

**Product Name:** TC-820 PART A

**Product Class:** Polyurethane resin

**Chemical Type:** Aromatic diisocyanate based on MDI

**Manufacturer:** BJB Enterprises, Inc., 14791 Franklin Avenue, Tustin, CA 92780, Phone (714) 734-8450, Fax (714) 734-8929, (M-Th: 8-4:30, F: 7:30-4), Emergency Phone: Chemtrec (800) 424-9300 or (703) 527-3887

## Section 2 - Composition / Information on Ingredients

Ingredient Name	CASRN	% wt
1. 4,4' Diphenylmethane diisocyanate (MDI)	101-68-8	<70
2. Modified MDI	Proprietary	<30

**Trace Impurities:** Triethyl phosphate (<1.0%)

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH IDLH
	TWA	STEL	TWA	STEL	TWA	STEL	
#1	0.02 ppm	0.2 mg/m <sup>3</sup>	0.005 ppm	NE	0.005 ppm	NE	NE
#2	NE	NE	NE	NE	NE	NE	NE

## Section 3 - Hazards Identification

### ☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Appearance: Clear, yellow liquid; Odor: Slightly sweet; Avoid skin contact. Avoid breathing vapors. May cause eye and skin irritation. Harmful if inhaled. Use in well-ventilated areas. Burning material will generate trace amounts of toxic fumes/gases.

**HMIS**  
**H** 2  
**F** 1  
**R** 1  
**PPE**<sup>†</sup>  
<sup>†</sup>Sec. 8

### Potential Health Effects

**Primary Entry Routes:** Eye and skin contact; inhalation of vapors.

**Inhalation/Ingestion:** Breathlessness, chest discomfort, in high concentrations. Delayed respiratory problems or sensitization may occur/Considered low toxicity by ingestion.

**Eye:** May cause irritation. Minor injury possible.

**Skin:** May cause irritation and possible allergic sensitivity with repeated contact.

**Medical Conditions Aggravated by Long-Term Exposure:** Prior sensitization to isocyanates or pre-existing respiratory problems, such as asthma, chronic bronchitis; Recurrent dermal conditions.

## Section 4 - First Aid Measures

**Inhalation:** Not likely. Remove to fresh air environment.

**Ingestion:** If swallowed, call a physician immediately. Remove stomach contents by gastric suction or induce vomiting only as directed by medical personnel. Never give anything by mouth to an unconscious person.

**Eye Contact:** Flush eyes with clean, lukewarm water for 15 minutes. Obtain medical attention if irritation develops.

**Skin Contact:** Remove contaminated clothing and wash affected areas well with soap and water. Launder contaminated clothing before use.

**Note to Physicians:** Treat any ill effects symptomatically.

## Section 5 - Fire-Fighting Measures

**Flash Point/Method:** >350°F (>177°C) PMCC

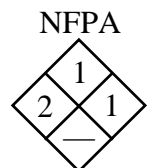
**Extinguishing Media:** Carbon dioxide, dry chemical extinguisher or foam.

**Unusual Fire or Explosion Hazards:** Water contamination and heat may generate pressure in partially sealed containers, resulting in tank or line rupture.

**Hazardous Combustion Products:** May generate toxic fumes/gases.

**Fire-Fighting Instructions:** Cool fire exposed containers with water spray. Remove containers from fire area if possible. Do not release runoff from fire control methods to sewers or waterways.

**Fire-Fighting Equipment:** Firefighters should wear positive pressure self-contained breathing apparatus (SCBA) and consider use of unmanned hose holders or monitor nozzles for fighting large fires.



## Section 6 - Accidental Release Measures

**Spill /Leak Procedures:** Provide adequate ventilation and wear personal protective equipment. Evacuate personnel as a precaution. Prevent product spill from entering sewers, streams, or drinking water supplies. Collect liquid or soak up with inert filler or an absorbent, such as dry earth, sand, or oil absorbent (sweeping) compound. Collect material into suitable containers for disposal. Wash area with dilute ammonia and detergent solution.

**Containment:** For large spills, dike ahead of liquid spill for later neutralization, absorption, clean up, and disposal.

## Section 7 - Handling and Storage

**Handling Precautions:** Avoid contact with eyes, skin and clothing. Avoid breathing vapor over open container.

**Storage Requirements:** Store in a cool, dry place away from excessive heat in original or similar waterproof containers. Avoid unnecessary contact. Protect from freezing. Containers should be tightly sealed to prevent contamination with foreign materials.

**Shelf life:** 6 months from date of shipment under manufacturers recommended storage conditions.

## Section 8 - Exposure Controls / Personal Protection

**Eye Protection Requirements:** Safety goggles or glasses are recommended. Plastic face shield should be worn for complete face protection.

**Skin Protection Requirements:** Impermeable gloves should be worn. Employees should wash their hands and face before eating, drinking, or using tobacco products.

**Ventilation/Respiratory Requirements:** Exhaust ventilation recommended. An organic vapor cartridge or fresh air supplied respirator (NIOSH certified) may be necessary for certain applications. Consider the type of application, environmental concentrations, and other materials being used concurrently when determining respirator use and selection. Observe OSHA regulations for respirator use (29 CFR 1910.134).

**Additional Protective Measures:** Safety showers and eye wash stations should be easily accessible to the work area. Training is important. Follow all label precautions.

## Section 9 - Physical and Chemical Properties

**Physical State:** Liquid

**Appearance and Odor:** Hazy, yellow; slight odor

**Vapor Pressure:** <0.001 mm Hg at 68°F (20°C)

**Specific Gravity (H<sub>2</sub>O=1):** 1.19

**pH:** N/A

**Water Solubility:** Reacts slowly with water

**Boiling Point:** >600°F (>315°C) Decomposes

**Viscosity:** 60 cps

**% Volatile:** NIL

**V.O.C. (ref EPA meth 24):** Essentially None

## Section 10 - Stability and Reactivity

**Stability:** Stable at room temperature in closed containers under normal storage and handling conditions.

**Hazardous Polymerization:** May occur slowly under heated conditions or exposure to incompatible chemicals.

**Chemical Incompatibilities/Conditions to Avoid:** Water, strong acids, inorganic bases, oxidizers, alcohols and amines/Water contamination and heat may generate pressure in partially sealed containers, resulting in tank or line rupture.

**Hazardous Decomposition:** Thermal oxidative decomposition can produce toxic fumes/gases containing trace amounts of HCC, HCN, CO, and Nitrogen oxides.

## Section 11- Toxicological Information

No Toxicological Information Available

## Section 12 - Ecological Information

No Ecological Information Available

## Section 13 - Disposal Considerations

**Waste Disposal Method:** Landfill burial unless prohibited. Dispose of in compliance with federal, state, or local environmental control regulations.

**Section 14 - Transport Information**

**DOT**  
Not regulated

**IATA/ICAO**  
Not regulated

**IMO/IMDG**  
Not regulated

**Section 15 - Regulatory Information****U.S. Federal Regulations:****OSHA:**

This document has been prepared in accordance with the MSDS requirements of the OSHA Hazard Communication Standard.

**SARA TITLE III:****Sections 311/312 Hazard Classification:**

H-1, H-2 Immediate & Delayed Health Hazard Reactive Hazard

Section 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

4,4' Diphenylmethane diisocyanate (MDI)                      CAS# – 101-68-8                      70% Maximum

**TSCA:** This product or its components are listed in or exempt from the TSCA inventory requirements.

This product contains the following substances subject to export notification under Section 12 (b) of TSCA:

None

**Section 16 - Other Information**

**Reason for Issue:** New Issue

**Prepared By:** M. Rose

**Approval Date:** 04/28/2003

**Supersedes Date:** N/A

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