

# Material Safety Data Sheet

MC-170 PART A

Date of Preparation: 04/25/2001

Revision: 04/25/2001

## Section 1 - Chemical Product and Company Identification

**Product Name:** MC-170 PART A

**Product Class:** Polyurethane resin

**Chemical Type:** Aromatic diisocyanate; Homopolymer mixture

**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'-Methylene diphenyl diisocyanate (MDI)	101-68-8	65 - 70
2. Modified MDI	26447-40-5	<20
3. MDI Homopolymer	39310-05-9	10 - 30

**Trace Impurities:** N/A

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH IDLH
	TWA	STEL	TWA	STEL	TWA	STEL	
#1	0.02 ppm (ceiling)	NE	0.005 ppm 0.055 mg/m <sup>3</sup>	NE	NE	NE	NE
#2	NE	NE	NE	NE	NE	NE	NE
#3	NE	NE	NE	NE	NE	NE	NE

## Section 3 - Hazards Identification

### ☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Appearance: Pale yellow liquid; Odor: slight 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 HCl, CO, and traces of HCN.

### 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, accidental ingestion.

**Inhalation/Ingestion:** Excessive vapors caused by heat or spray mist can cause respiratory problems; practically non-toxic.

**Eye:** May cause irritation and redness.

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

**Medical Conditions Aggravated by Long-Term Exposure:** Acute asthma or prior sensitization to isocyanates (skin or inhalation).

## 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

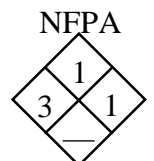
**Flash Point/Method:** >350°F (>177°C) COC

**Extinguishing Media:** Foam, carbon dioxide, or water spray. Dry chemical for class B fires.

**Unusual Fire or Explosion Hazards:** Burning material will generate toxic fumes/gases containing HCl, CO, and traces of HCN.

**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 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:** Mechanical or well-ventilated area 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:** Pale yellow oil; slight sweet

**Vapor Pressure:** <0.0001 mm Hg at 77°F (25°C)

**Specific Gravity (H<sub>2</sub>O=1):** 1.21

**pH:** N/A

**Water Solubility:** Reacts with water slowly

**Boiling Point:** 644°F (340°C) decomposes

**Viscosity:** 50 cps

**% Volatile:** <1.0

**V.O.C. (ref EPA meth 24):** 10 g/l

## Section 10 - Stability and Reactivity

**Stability:** MC-170 PART A is stable at room temperature in closed containers under normal storage and handling conditions.

**Polymerization:** Hazardous polymerization may occur in the presence of water and alkali or metal salts.

**Chemical Incompatibilities/Conditions to Avoid:** Water, strong acids and bases, alcohols, and amines.

**Hazardous Decomposition:** Thermal oxidative decomposition can produce toxic fumes/gases containing HCl, CO, and traces of HCN.

## Section 11- Toxicological Information

No Toxicological Information Available

## Section 12 - Ecological Information

No Ecological Information Available

## Section 13 - Disposal Considerations

**Waste Disposal Method:** Collect liquid or solidify and package for disposal in compliance with federal, state, or local environmental control regulations. This material is not a hazardous waste under RCRS 40 CFF261.

**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:

None

Section 313: This product contains the following substances subject to the reporting requirements of EPCRA, Section 313 and 40 CFR Part 372:

Methylenebis (phenylisocyanate) MDI      CAS# 101-68-8      65%

**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:** Revised Sections 7 & 15

**Prepared By:** S.F. Marks

**Approval Date:** 04/25/2001

**Supersedes Date:** 09/30/1999

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