Material Safety Data Sheet

TC-871 PART A

Date of Preparation: 04/08/2003 Revision: 04/08/2003

Section 1 - Chemical Product and Company Identification

Product Name: TC-871 PART A
Product Class: Polyurethane Resin
Chemical Type: Aromatic Diisocyanate, 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' Diphenylmethane Diisocyanate (MDI)	101-68-8	<70
2. Polyurethane prepolymer	NL	<30
3. Proprietary non reactive ingredient	NL	<10

Trace Impurities:

	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH
Ingredient	TWA	STEL	TWA	STEL	TWA	STEL	IDLH
#1	0.02 ppm	NE	0.005 ppm	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: Translucent 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 toxic fumes/gases.

HMIS
H 2
F 1
R 1
PPE†
†Sec. 8

Potential Health Effects

Primary Entry Routes: Eye and skin contact; inhalation of vapors/considered low toxicity to ingestion.

Inhalation/Ingestion: Not likely. Excessive vapors caused by heat or spray mist can cause respiratory irritation/Respiratory sensitization is possible in some individuals.

Eye: May cause irritation, redness and/or tearing.

Skin: May cause irritation and possible allergic sensitivity, redness, or rash with repeated or long-term contact.

Carcinogenicity: The components of this product are not listed by NTP, IARC or regulated as a carcinogen by OSHA.

Medical Conditions Aggravated by Long-Term Exposure: Pre-existing skin or respiratory disorders.

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.

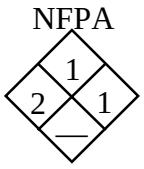
Section 5 - Fire-Fighting Measures

Flash Point/Method: 390°F (199°C) COC

Autoignition Temperature: Not established

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 Hydrochloric Acid, CO2 and HCN. Closed containers, when exposed to high heat, may generate pressure and cause explosive rupture. Cool containers with water spray.



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. Avoid open container exposure to damp air.

Handling/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 mandatory. Plastic face shields may be worn for complete face protection.

Skin Protection Requirements: Impermeable gloves. 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 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. Work training is important. Follow all label precautions.

Section 9 - Physical and Chemical Properties

Physical State: Liquid
Appearance and Odor: Translucent yellow/slight sweet
Vapor Pressure: <0.0001 mm Hg @ 77°F (25ºC)
Vapor Density (Air=1): N/A
Specific Gravity (H_2O=1): 1.18
pH: N/A

Water Solubility: Reacts with water slowly
Boiling Point: @ 5mm Hg at 392°F (200°C),
@ 640°F (340°C) decomposes
Viscosity: 200 cps
% Volatile: None
V.O.C. (ref EPA meth 24): Contains no VOC's

Section 10 - Stability and Reactivity

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

Polymerization: May occur.

Chemical Incompatibilities/Conditions to Avoid: Water, acids, strong bases, alcohols, amines and oxidizers/excessive heating. Exposure to damp air will cause some product deterioration.

Hazardous Decomposition: Thermal oxidative decomposition can produce Hydrochloric Acid, CO and HCN.

Section 11- Toxicological Information

Eye Effects: Irritation

Skin Effects: Irritation

Mutagenicity: None determined

Teratogenicity: None determined

Section 12 - Ecological Information

No Ecological Information Available

Section 13 - Disposal Considerations

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

Section 14 - Transport Information

DOT	**IATA/ICAO**	**IMO/IMDG**
Not Regulated	Not Regulated	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:

Immediate Health Hazard; Delayed Health Hazard; Reactive Hazard.

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

4,4' Diphenylmethane Diisocyanate (MDI) CAS# 101-68-8 70% (max)

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: Revision to Sections 2, 3, 9 & 15
Prepared By: S.F. Marks
Approval Date: 04/08/2003
Supersedes Date: 09/07/2001

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