

Material Safety Data Sheet

TC-680 PART A

Date of Preparation: 03/14/2003

Revision: 03/14/2003

Section 1 - Chemical Product and Company Identification

Product Name: TC-680 PART A

Product Class: Polyurethane resin

Chemical Type: Cycloaliphatic isocyanate based prepolymer

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. Dicyclohexylmethane 4,4 diisocyanate (H ₁₂ MDI)	5124-30-1	5

Trace Impurities: Xylene, <1%

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH IDLH
	TWA	STEL	TWA	STEL	TWA	STEL	
#1	0.01 ppm ceiling	NE	0.005 ppm	NE	NE	NE	NE

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Appearance: Viscous clear liquid; Odor: slight; May cause eye and skin irritation. Use in well ventilated area.

HMIS

H 2

F 1

R 1

PPE[†]

[†]Sec. 8

Potential Health Effects

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

Inhalation/Ingestion: Not likely under normal handling conditions. Vapors produced by heat or spray mist can cause respiratory problems/Moderately toxic by ingestion.

Eye: May cause irritation.

Skin: May cause irritation and possible allergic sensitivity with repeated contact, leading to rash or skin redness.

Medical Conditions Aggravated by Long-Term Exposure: Respiratory disorders, or prior skin sensitization to isocyanates.

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. Wash contaminated clothing before use.

Note to Physicians: Treat any ill effects symptomatically.

Section 5 - Fire-Fighting Measures

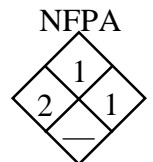
Flash Point/Method: >350°F (>177°C) PMCC

Extinguishing Media: Water, carbon dioxide, or dry chemical extinguisher.

Unusual Fire or Explosion Hazards: Not likely. Avoid contact with strong oxidizers and strong acids as sudden reaction may result in fire and 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 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 moisture contamination.

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 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: Viscous liquid

Appearance and Odor: Clear, colorless; slight odor.

Vapor Pressure: <0.001 mm Hg at 75°F(24°C)

Specific Gravity (H₂O=1): 1.03

pH: N/A

Water Solubility: Insoluble – reacts slowly with water to liberate carbon dioxide gas.

Boiling Point: Decomposes

Viscosity: 9000 cps

% Volatile: 1.5

V.O.C. (ref EPA meth 24): 15 gm/liter

Section 10 - Stability and Reactivity

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

Polymerization: May occur slowly under exposure conditions.

Chemical Incompatibilities/Conditions to Avoid: Mineral acids and amines. Avoid water contamination.

Hazardous Decomposition: Toxic fumes/gases may be generated during combustion or high heat.

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 or incineration 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:

None

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

Dicyclohexylmethane-4,4'-diisocyanate CAS# 5124-30-1 5% (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: Revised sections 2, & 15

Prepared By: S.F. Marks

Approval Date: 03/14/2003

Supersedes Date: 10/17/2001

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