Material Safety Data Sheet

TC-9460 PART A

Date of Preparation: 07/28/2004 Revision: 07/28/2004

Section 1 - Chemical Product and Company Identification

Product Name: TC-9460 PART A
Product Class: Polyurethane resin
Chemical Type: Cycloaliphatic diisocyanate 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
1. Cycloaliphatic diisocyanate prepolymer	Proprietary
2. Dicyclohexylmethane – 4,4' - diisocyanate	5124-30-1
3. Isophorone diisocyanate	4098-71-9

Trace Impurities: N/A

	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH
Ingredient	TWA	STEL	TWA	STEL	TWA	STEL	IDLH
#1	NE	NE	NE	NE	NE	NE	NE
#2	NE	NE	0.005 ppm	NE	NE	NE	NE
#3	NE	0.02 ppm	0.005 ppm	NE	NE	NE	NE

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Appearance: Clear/colorless, viscous liquid; Odor: Negligible; May cause eye and skin irritation. Burning material will generate fumes/gases containing trace amounts of HCl (Hydrochloric acid), CO, and HCN.

HMIS
H 3
F 1
R 1
PPE†
†Sec. 8

Potential Health Effects

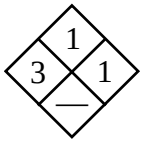
Primary Entry Routes: Eye and skin contact; inhalation of vapors, accidental ingestion.
Inhalation/Ingestion: Excessive vapors caused by heat or spray mist can cause respiratory problems.
Eye: May cause irritation and redness.
Skin: May cause irritation and possible allergic sensitivity with repeated contact.
Medical Conditions Aggravated by Long-Term Exposure: Acute asthma

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

NFPA



Flash Point/Method: >300°F (149°C) Closed Cup
Autoignition Temperature: N/A
Flammability Classification: N/A
Extinguishing Media: Water spray, foam, or dry chemical extinguisher. Carbon dioxide for class B fires.
Unusual Fire or Explosion Hazards: N/A
Hazardous Combustion Products: Burning material will generate fumes/gases containing trace amounts of HCI (Hydrochloric acid), CO, and 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 directly 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. Store material under inert atmosphere.

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: Use in a well-ventilated area. 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. Working training is important. Follow all label precautions.

Section 9 - Physical and Chemical Properties

Physical State: Viscous liquid
Appearance and Odor: Clear/colorless; Negligible odor
Vapor Pressure: NE
Specific Gravity (H_2O=1): 1.05
pH: N/A
Water Solubility: Insoluble; reacts with water
Boiling Point: NE
Viscosity: 6640 cps
% Volatile: NE
V.O.C. (ref EPA meth 24): NE

Section 10 - Stability and Reactivity

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

Polymerization: Hazardous polymerization may occur with amines, epoxy hardeners, high heat, and moisture.

Chemical Incompatibilities/Conditions to Avoid: Acids, oxidizers, amines, and strong bases.

Hazardous Decomposition: Thermal oxidative decomposition can produce fumes containing trace amounts of HCl (Hydrochloric acid), CO, and HCN.

Section 11- Toxicological Information

No Toxicological Information Available

Section 12 - Ecological Information

No Ecological Information Available

Section 13 - Disposal Considerations

Waste Disposal Method: Dispose of in compliance 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: None

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:

Dicyclohexylmethane – 4,4' – Diisocyanate	CAS Number 5124-30-1	29% (max.) by weight
Isophorone Diisocyanate	CAS Number 4098-71-9	4% (max.) by weight

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: 07/29/2004
Supersedes Date: N/A

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