

Material Safety Data Sheet

TC-1630 PART A

Date of Preparation: 10/20/2003

Revision: 10/20/2003

Section 1 - Chemical Product and Company Identification

Product Name: TC-1630 PART A

Product Class: Polyurethane resin

Chemical Type: Aromatic diisocyanate and oligomers-solvent, fillers 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. Polymeric diphenylmethane diisocyanate | 9016-87-9 | <15 |
| 2. 4,4' Diphenylmethane diisocyanate (MDI) | 101-68-8 | <15 |
| 3. MDI oligomers | Not listed | <2 |
| 4. Diisobutyric acid, trimethyl pentandiol ester | 6846-50-0 | <10 |
| 5. Aromatic hydrocarbon | 64742-94-5 | <2 |
| 6. Mineral spirits | 8052-41-3 | <2 |

Trace Impurities: N/A

| Ingredient | OSHA PEL | | ACGIH TLV | | NIOSH REL | | NIOSH IDLH |
|------------|----------|------|-----------|------|-----------|------|------------|
| | TWA | STEL | TWA | STEL | TWA | STEL | |
| #1 | NE | NE | NE | NE | NE | NE | NE |
| #2 | 0.02 ppm | NE | 0.005 ppm | NE | NE | NE | NE |
| #3 | NE | NE | NE | NE | NE | NE | NE |
| #4 | NE | NE | NE | NE | NE | NE | NE |
| #5 | NE | NE | NE | NE | NE | NE | NE |
| #6 | 500 ppm | NE | 100 ppm | NE | NE | NE | NE |

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Appearance: Viscous, black liquid; Odor: Naphtha-like; 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 3

F 2

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 or prior sensitization to isocyanates to naphtha solvents.

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

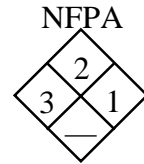
Flash Point/Method: 160°F (71°C) PMCC

Extinguishing Media: Water spray, foam, dry chemical extinguisher, or carbon dioxide (for Class B fires).

Unusual Fire or Explosion Hazards: Burning material will generate fumes containing trace amounts of HCl (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 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: 3 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: Viscous liquid

Appearance and Odor: Black; Naphtha-like

Vapor Pressure: N/A

Specific Gravity (H₂O=1): 1.73

pH: N/A

Water Solubility: Reacts slowly with water liberating CO₂ gas.

Boiling Point: Not determined

Viscosity: 900 cps

% Volatile: <5

V.O.C. (ref EPA meth 24): 60 gm/liter

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, or high heat plus moisture.

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

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 RCRA 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:

N/A

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

| | | |
|---|------------------|------------|
| Diisocyanate compound (Code N120) | CAS # - 101-68-8 | 15% (max.) |
| 4,4' Diphenylmethane diisocyanate (MDI) | CAS # - 101-68-8 | 15% (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, 7 & 15

Prepared By: M. Rose

Approval Date: 10/20/2003

Supersedes Date: 10/14/1999

Disclaimer: This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of BJB Enterprises, Inc. The data on this sheet relates only to the specific material designated herein. BJB Enterprises, Inc. assumes no legal responsibility for use or reliance upon these data.