

Material Safety Data Sheet

TC-312 PART B

Date of Preparation: 10/31/2005

Revision: 10/31/2005

Section 1 - Chemical Product and Company Identification

Product Name: TC-312 PART B

Product Class: Polyurethane curing agent

Chemical Type: Polyether polyol, halogenated diol, alkyl phosphate 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. Polyether polyol mixture	Proprietary	<60
2. Halogenated aromatic diol	Proprietary	<25
3. Tri (1,3-dichloropropyl-2) phosphate	13674-87-8	<20
4. Tertiary amine compounds	Proprietary	<2

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Appearance: Clear, amber, viscous liquid; Odor: Slight; Avoid skin contact. Avoid breathing vapors. May cause eye and skin irritation. Harmful if inhaled. Use in well-ventilated areas.

HMIS
H 1
F 1
R 0
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 discomfort.

Eye: May cause irritation.

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

Medical Conditions Aggravated by Long-Term Exposure: None known

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

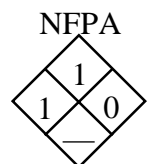
Flash Point/Method: 265°F (129°C) PMCC

Extinguishing Media: Water spray, foam, dry chemical

Unusual Fire or Explosion Hazards: None

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

Exposure Limits:

- Polyether polyol mixture (Proprietary):
Not established
- Halogenated aromatic diol (Proprietary):
Not established
- Tri (1,3-dichloropropyl-2) phosphate (13674-87-8):
Not established
- Tertiary amine compounds (Proprietary):
Not established

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 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

Flash Point/Method: 265°F (129°C) PMCC

Physical State: Viscous liquid

Appearance and Odor: Clear amber; Slight

Vapor Pressure: NE

Specific Gravity (H₂O=1): 1.25

pH: NE

Water Solubility: Slightly soluble

Boiling Point: NE

Viscosity: 2160 cps

% Volatile: None

V.O.C. (ref EPA meth 24): None

Section 10 - Stability and Reactivity

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

Hazardous Polymerization: Will not occur.

Chemical Incompatibilities/Conditions to Avoid: Isocyanates, oxidizers, and mineral acids.

Hazardous Decomposition: N/A

Section 11- Toxicological Information

Toxicity to Animals:

- Polyether polyol mixture (Proprietary):
Not established
- Halogenated aromatic diol (Proprietary):
LD50 Acute Oral, Rat: >10,000 mg/kg
LD50 Acute Dermal, Rabbit: >11,500 mg/kg
LC50 Acute Inhalation, Rat: >0.008 mg/l (1 hour)
- Tri (1,3-dichloropropyl-2) phosphate (13674-87-8):
LD50 Oral, Rat: 2,830 mg/kg
LD50 Acute Oral, Rabbit: 6,800 mg/kg
LD50 Acute Dermal, Rabbit: >23,900 mg/kg
LC50 Acute Inhalation, Rat: >9.8 mg/l
- Tertiary amine compounds (Proprietary):
Not established

Section 12 - Ecological Information

Ecotoxicity:

- Polyether polyol mixture (Proprietary):
Not established
- Halogenated aromatic diol (Proprietary):
LC50 Bluegill sunfish: 12 mg/l (96 hour), (NOEC <10 mg/l)
- Tri (1,3-dichloropropyl-2) phosphate (13674-87-8):
EC50 Daphnia magna: 3.8 mg/l (Moderately toxic)
- Tertiary amine compounds (Proprietary):
Not established

Section 13 - Disposal Considerations

Waste Disposal Method: 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:
Chronic Health Hazard

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:
None

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

Halogenated aromatic diol (Proprietary):

The components of this product are either on the TSCA Inventory or exempt i.e. impurities, a polymer complying with the exemption rule at 40 CFR 723.250) from the Inventory.

California Proposition 65: Acceptable intake levels are 7,000 ug/day (oral) and 13,000 ug/day (inhalation).

WARNING: This product contains a chemical known to the State of California to cause cancer.

Halogenated aromatic diol CAS# Proprietary

Canadian WHMIS Hazard Class and Division = D.2.b

Section 16 - Other Information

Reason for Issue: New Issue

Prepared By: Gus Alidad

Approval Date: 10/31/2005

Supersedes Date: N/A

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