

Material Safety Data Sheet

TC-1606 PART B

Date of Preparation: 10/17/2000

Revision: 10/17/2000

Section 1 - Chemical Product and Company Identification

Product Name: TC-1606 PART B

Product Class: Epoxy hardener

Chemical Type: Amidoamine, aliphatic amine 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. Amidoamine; Reaction product with TEPA | 68953-36-3 | 75-85 |
| 2. Tetraethylenepentamine (TEPA) | 112-57-2 | <15 |

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 | NE | NE | NE | NE | NE | NE | NE |

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Appearance: Clear, amber liquid; Odor: Amine odor; 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 1
R 0
PPE[†]
[†]Sec. 8

Potential Health Effects

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

Acute Effects

Inhalation/Ingestion: Irritation, burning sensation, lung damage in high concentrations. Moderately toxic.

Eye: Severe eye irritant.

Skin: Severe skin irritant.

Medical Conditions Aggravated by Long-Term Exposure: May aggravate pre-existing asthma, skin disorders, and allergies.

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: 383°F (195°C) PMCC

Autoignition Temperature: 573°F (300°C) in air

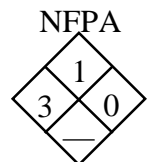
Hazardous Classification: Class 8, PG III

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

Hazardous Combustion Products: Ammonia, carbon monoxide, and aldehydes

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. Flush contaminated area with water.

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: 12 months from shipping date, 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 usage (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: Liquid

Appearance and Odor: Clear, amber; Amine odor

Vapor Pressure: <1.0 mm Hg at 68°F (20°C)

Specific Gravity (H₂O=1): 0.95

pH: N/A

Water Solubility: Slight

Boiling Point: ND

Viscosity: 300 cps

% Volatile: Negligible

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

Section 10 - Stability and Reactivity

Stability: TC-1606 PART B is stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: Hazardous polymerization will not occur.

Chemical Incompatibilities/Conditions to Avoid: Acids, epoxides, oxidizing agents, and organohalogens.

Hazardous Decomposition: Thermal oxidative decomposition can produce ammonia, carbon monoxide, and aldehydes.

Section 11- Toxicological Information

No Toxicological Information Available

Section 12 - Ecological Information

No Ecological Information Available

Section 13 - Disposal Considerations

Waste Disposal Method: Incineration in compliance with federal, state, or local environmental control regulations.

Section 14 - Transport Information

| | |
|--|-----------------------------|
| Shipping Name: Corrosive liquid, n.o.s. | DOT (USA): Regulated |
| Technical Name: (tetraethylenepentamine solution) | Class 8, PG III |
| Hazard Class: 8 | IATA/ICAO: Regulated |
| ID No.: UN1760 | Class 8, PG III |
| Packing Group: III | IMO/IMDG: Regulated |
| Label: Corrosive | Class 8, PG III |

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:

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

Section 16 - Other Information

Reason for Issue: Revision to Section 15

Prepared By: S.F. Marks

Approval Date: 11/08/2000

Supersedes Date: 08/16/1999

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