

Material Safety Data Sheet

TC-1622 PART A

Date of Preparation: 08/09/2005

Revision: 08/09/2005

Section 1 - Chemical Product and Company Identification

Product Name: TC-1622 PART A

Product Class: Epoxy resin solution

Chemical Type: Phenol novolac diglycidyl ether resin with diluants

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. Epoxy phenol novolac resin	28064-14-4	75-85
2. Glycidyl ether, aliphatic, modifier	14228-73-0	5-10
3. Xylene	1330-20-7	5-10
4. Ethylbenzene	100-41-4	<2.5
5. Toluene	108-88-3	<0.015

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Appearance: Clear liquid; Odor: Slight solvent; May cause eye and skin irritation. Harmful if inhaled. Flammable.

HMIS
H 2
F 2
R 0
PPE†
†Sec. 8

Potential Health Effects

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

Inhalation/Ingestion: Moderate respiratory irritation.

Eye: May cause mild irritation, non-injurious.

Skin: May cause mild irritation and sensitization.

Medical Conditions Aggravated by Long-Term Exposure: Irritation, sensitization and Dermatitis in some individuals.

Section 4 - First Aid Measures

Inhalation: Remove to fresh air environment. Administer oxygen if breathing is difficult.

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: 106°F (41°C) PMCC

Extinguishing Media: Water, foam, carbon dioxide, or dry chemical extinguisher for fighting class B fire.

Unusual Fire or Explosion Hazards: Decomposition and combustion may be toxic.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, and aldehydes.

Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways.

Fire-Fighting Equipment: Firefighters must wear self-contained breathing apparatus and full protective equipment for fighting large fires.



Section 6 - Accidental Release Measures

Spill /Leak Procedures: Wear approved respirator and appropriate clothing. If possible, pump into salvage drums or shovel or scrape into salvage drums. Soak up small spills with absorbent material like clay. Avoid or remove all sources of ignition.

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 container opening.

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. Keep away from heat, flames, or other sources of ignition.

Shelf life: 12 months from date of shipment under manufacturers recommended storage conditions.

Section 8 - Exposure Controls / Personal Protection

Exposure Limits:

Epoxy phenol novolac resin (28064-14-4):

Not established

Glycidyl ether, aliphatic, modifier (14228-73-0):

Not established

Xylene (1330-20-7):

ACGIH TLV: 100 ppm (TWA)

150 ppm (STEL)

OSHA PEL: 100 ppm (TWA)

150 ppm (STEL)

Ethylbenzene (100-41-4):

ACGIH TLV: 100 ppm (TWA)

125 ppm (STEL)

OSHA PEL: 100 ppm (TWA)

125 ppm (STEL)

Toluene (108-88-3):

ACGIH TLV: 50 ppm (TWA)

OSHA PEL: 100 ppm (TWA)

150 ppm (STEL)

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

Flash Point/Method: 106°F (41°C) PMCC

Physical State: Liquid

Appearance and Odor: Clear; slight solvent odor

Vapor Pressure: <10 mm Hg @ 68°F (20°C)

Specific Gravity (H₂O=1): 1.13

pH: N/A

Water Solubility: Negligible

Boiling Point: >300°F (149°C)

Viscosity: 550 cps

% Volatile: 10

V.O.C. (ref EPA meth 24): 113 g/l

Section 10 - Stability and Reactivity

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

Polymerization: Hazardous polymerization will not occur.

Chemical Incompatibilities/Conditions to Avoid: Oxidizing agents, strong acids, nitrates, and chromic etch solutions.

Section 11- Toxicological Information

Animal Toxicity:

Epoxy phenol novolac resin (28064-14-4):

LD50 Oral (rat): 4,000 mg/kg

Glycidyl ether, aliphatic, modifier (14228-73-0):

LD50 Oral (rat): 2,450 mg/kg

LD50 Dermal (rabbit): 2,500 mg/kg

Xylene (1330-20-7):
 LD50 Oral (rat): 4,300 mg/kg
 LC50 Inhalation (rat): 4,550 ppm (4 hours)
 LD50 Dermal (rabbit): 14,100 uL/kg
 Ethylbenzene (100-41-4):
 LD50 Oral (rat): 3,500 mg/kg
 LD50 Dermal (rabbit): 17,800 uL/kg
 Toluene (108-88-3):
 Not established

Section 12 - Ecological Information

No Ecological Information Available

Section 13 - Disposal Considerations

Waste Disposal Method: Reclaim; remove to waste disposal facility operating in compliance with federal, state, or local environmental control regulations.

Section 14 - Transport Information

Shipping Name: Flammable liquid, n.o.s.	DOT (Ground): Not regulated
Technical Name: (Xylene solution)	IATA/ICAO: Regulated
Hazard Class: Class 3	DOT (AIR): Class 3, PG III
ID No.: UN1993	IMO/IMDG: Regulated
Packing Group: III	Class 3, PG III
Label: Flammable Liquid	

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:

Xylene	CAS# 1330-20-7	5-10%
Ethylbenzene	CAS# 100-41-4	<2.5 %

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

State Regulations:

California Proposition 65: This product contains chemical(s) known to the State of California to cause cancer and/or cause birth defects or other reproductive harm.

Ethylbenzene (100-41-4)
 Toluene (108-88-3)

Section 16 - Other Information

Reason for Issue: Revised sections 1, 2, 5, 8, 9, 11, 14, & 15

Prepared By: G. Alidad

Approval Date: 08/09/2005

Supersedes Date: 02/15/2002

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.