

# Material Safety Data Sheet

TC-1618 PART A

Date of Preparation: 11/01/2004

Revision: 11/01/2004

## Section 1 - Chemical Product and Company Identification

**Product Name:** TC-1618 PART A

**Product Class:** Epoxy resin

**Chemical Type:** Epoxy phenol novolac resin glycidyl ether

**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. Epoxidized novolac resin	28064-14-4	<50
2. Calcium carbonate	1317-65-3	<30
3. Aluminum	7429-90-5	<25
4. 1, 4 Cyclohexanedimethanol diglycidyl ether	14228-73-0	<10

**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	15 mg/m <sup>3</sup>	NE	10 mg/m <sup>3</sup>	NE	NE	NE	NE
#3	15 mg/m <sup>3</sup>	NE	10 mg/m <sup>3</sup>	NE	NE	NE	NE
#4	NE	NE	NE	NE	NE	NE	NE

## Section 3 - Hazards Identification

### ☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Appearance: Gray paste; Odor: Slight ether-like odor; Avoid skin contact. Avoid breathing vapors. May cause eye and skin irritation. Use in well-ventilated areas.

**HMIS**  
H 2  
F 1  
R 0  
**PPE**<sup>†</sup>  
<sup>†</sup>Sec. 8

### Potential Health Effects

**Primary Entry Routes:** Eye and skin contact; accidental ingestion.

**Inhalation/Ingestion:** Not likely/May cause gastric irritation.

**Eye:** May cause irritation with repeated or prolonged contact.

**Skin:** May cause irritation or possible sensitization with repeated or prolonged contact.

**Medical Conditions Aggravated by Long-Term Exposure:** Prior sensitivity to epoxy resin, epoxide or phenolics.

## 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:** >200°F (93°C) Closed cup

**Extinguishing Media:** Carbon dioxide, dry powder, foam or water spray.

**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:** 12 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:** Paste

**Appearance and Odor:** Gray; Slight ether-like odor

**Vapor Pressure:** <1 mm Hg @ 77°F (25°C)

**Specific Gravity (H<sub>2</sub>O=1):** 1.74

**pH:** N/A

**Water Solubility:** Negligible

**Boiling Point:** >300°F (149°C)

**Viscosity:** 155,000 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:** Strong mineral acids, oxidizers and amines.

**Hazardous Decomposition:** None known.

## Section 11- Toxicological Information

No Toxicological Information Available

## Section 12 - Ecological Information

No Ecological Information Available

## Section 13 - Disposal Considerations

**Waste Disposal Method:** Incinerate or approved landfill burial unless prohibited. 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:**

Immediate Health Hazard

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:** New Issue

**Prepared By:** M. Rose

**Approval Date:** 11/01/2004

**Supersedes Date:** N/A

**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.