

# Material Safety Data Sheet

TC-4206 PART A

Date of Preparation: 09/19/2005

Revision: 09/19/2005

## Section 1 - Chemical Product and Company Identification

**Product Name:** TC-4206 PART A

**Product Class:** Epoxy resin

**Chemical Type:** Bisphenol A glycidyl ether polymer with dispersed mineral filler

**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. Bisphenol A diglycidyl ether resin	25068-38-6	70-90
2. Calcium carbonate	1317-65-3	10-20

## Section 3 - Hazards Identification

### ☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Appearance: Viscous liquid; Odor: slight; May cause eye and skin irritaion.

### HMIS

**H** 2

**F** 1

**R** 0

**PPE**†

†Sec. 8

### Potential Health Effects

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

**Inhalation/Ingestion:** Not likely to occur.

**Eye:** May cause irritation.

**Skin:** May cause irritation and sensitization.

**Medical Conditions Aggravated by Long-Term Exposure:** Irritation, sensitization and Dermatitis.

## Section 4 - First Aid Measures

**Inhalation:** Not likely. Remove to fresh air environment.

**Ingestion:** If swallowed, give at least 3 - 4 glasses of water but do NOT induce vomiting. If vomiting occurs, give water again. Do not give anything by mouth to an unconscious or convulsing person. Get medical attention. Have a physician determine whether vomiting or stomach evacuation is necessary.

**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:** 480°F (249°C) PMCC

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

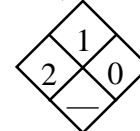
**Unusual Fire or Explosion Hazards:** Decomposition and combustion may be toxic.

**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.

NFPA



## Section 6 - Accidental Release Measures

**Spill /Leak Procedures:** Wear approved respirator and appropriate clothing. If warm, pump into salvage drums. If cold and non-pumpable, shovel or scrape into salvage drums. Soak up small spills with absorbent material like clay.

**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.

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

## Section 8 - Exposure Controls / Personal Protection

### Exposure Limits:

Bisphenol A diglycidyl ether resin (25068-38-6):  
Not established

Calcium carbonate (1317-65-3):

OSHA PEL: 15 mg/m<sup>3</sup> (TWA) total dust; 5 mg/m<sup>3</sup> (TWA) respirable fraction

NIOSH REL: 10 mg/m<sup>3</sup> (TWA) total dust; 5 mg/m<sup>3</sup> (TWA) respirable dust

**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:** 480°F (249°C) PMCC

**Physical State:** Viscous liquid

**Appearance and Odor:** Off white; slight odor

**Vapor Pressure:** ~ 1 mm Hg @ 356°F (180°C)

**Specific Gravity (H<sub>2</sub>O=1):** 1.4

**pH:** N/A

**Water Solubility:** Insoluble

**Boiling Point:** >392°F (200°C)

**% 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.

**Polymerization:** Hazardous polymerization will not occur.

**Chemical Incompatibilities/Conditions to Avoid:** Oxidizing agents, strong acids or bases.

## Section 11- Toxicological Information

### Animal Toxicity:

Bisphenol A diglycidyl ether resin (25068-38-6):

LD50 Oral (rat): >5,000 mg/kg

LD50 Dermal (rabbit): >6,000 mg/kg

Calcium carbonate (1317-65-3):

Not established

## Section 12 - Ecological Information

### Ecotoxicity:

Bisphenol A diglycidyl ether resin (25068-38-6):

LC50 Rainbow trout: 1.5 mg/l (96 hours)

LC50 Zebra fish: 2.4 mg/l (96 hours)

EC50 Daphnia magna: 3.6 mg/l (24 hours)

Calcium carbonate (1317-65-3):

This material is not expected to be harmful to aquatic life.

## 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**

**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:**

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 sections 2, 3, 8, 9, 11 & 12

**Prepared By:** Gus Alidad

**Approval Date:** 09/19/2005

**Supersedes Date:** 03/08/2001

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