

# MATERIAL SAFETY DATA SHEET

ELJEN TECHNOLOGY  
SWEETWATER, TX 79556

Emergency Phone (24 hours)  
CHEMTREC (800) 424-9300

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Date: 26 Sept. 2003

**PRODUCT NAME: EJ-500 OPTICAL CEMENT – Resin (Part A)**

## SECTION I SUPPLIER INFORMATION

**COMMON NAME** EJ-500 - Resin  
**CHEMICAL NAME** Bisphenol A/Epichlorohydrin - based epoxy resin  
**FORMULA** N/A  
**PRODUCT CAS #** 106-89-8  
**MANUFACTURER** ELJEN TECHNOLOGY  
**ADDRESS** 300 CRANE STREET  
SWEETWATER, TEXAS 79556  
**PHONE** (325) 235-4276  
**FAX** (325) 235-2872

## SECTION II HAZARDOUS INGREDIENT INFORMATION

COMPONENT	% WT.	OSHA-PEL	TLV-ACGIH
Epoxy Resin	>99%	Not Established	Not Established
Epichlorohydrin	< 1.0%	8 mg/M <sup>3</sup> TWA	7.6 mg/M <sup>3</sup>

### INGREDIENT HAZARD STATEMENT

All components of this product are listed on the EPA Toxic Substance Control Act Inventory

## SECTION III PHYSICAL/CHEMICAL PROPERTIES

**BOILING POINT** Not Determined  
**MELTING POINT** N/A  
**SPECIFIC GRAVITY (H<sub>2</sub>O=1)** 1.20  
**VAPOR PRESSURE (mm Hg)** < 1 mm Hg at RT  
**VAPOR DENSITY (air =1)** N/A  
**PERCENT VOLATILE BY VOLUME (%)** < 1%  
**EVAPORATION RATE (BUTYL ACETATE=1)** N/A  
**SOLUBILITY IN WATER** Negligible

### APPEARANCE AND ODOR

Colorless to slightly yellow liquid. No odor.

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## SECTION IV FIRE AND EXPLOSION HAZARD DATA

**FLASH POINT (Method used):** 390°F (Pensky Martens Closed Cup; ASTM D93)

**AUTO-IGNITION TEMP:** N/A

**FLAMMABLE LIMITS**

LEL N/A

UEL N/A

**NFPA HAZARD CLASSIFICATION**

HEALTH: 1      FLAMMABLE: 1      REACTIVITY: 0

**HMIS HAZARD CLASSIFICATION**

HEALTH: 2      FLAMMABLE: 1      REACTIVITY: 0

**EXTINGUISHING MEDIA:**

Carbon Dioxide, Dry Chemical, Foam, Water Fog

**SPECIAL FIRE FIGHTING PROCEDURES:**

Fire fighters should wear self-contained breathing apparatus

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

Toxic vapors may be evolved upon exposure to heat or open flame.

## SECTION V REACTIVITY DATA

**STABILITY:**                      **STABLE**                       **UNSTABLE**

**CONDITIONS TO AVOID:**                      N/A

**INCOMPATIBILITY(Mat's. To Avoid):**      Strong oxidizers, Amines, Amides, Strong Lewis or mineral acids, Thiosulfates, Carboxylic acids, Alcohols & Mercaptans

**HAZARDOUS DECOMPOSITION PRODUCTS:**      Carbon Monoxide, Carbon Dioxide, Oxides of Nitrogen

**HAZARDOUS POLYMERIZATION:**                      May occur - see below

**AVOID:**                      Reaction with curing agents is exothermic causing heat build-up when polymerized in large batches; smoke or toxic fumes may be evolved if excessive heat occurs. When curing, keep mass dimensions small to allow for exotherm dissipation.

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## SECTION VI HEALTH HAZARD DATA

### ROUTES OF ENTRY

**EYES:** Yes  
**SKIN:** Yes  
**INHALATION:** Yes  
**INGESTION:** Yes

### ACUTE EFFECTS OF OVEREXPOSURE

**EYE:** Moderately irritating upon direct contact

**SKIN:** Moderately irritating. Prolonged exposure may result in skin sensitization.

**INHALATION:** Inhalation of vapors at elevated temperatures may cause irritation.

**INGESTION:** Harmful if swallowed.

### CARCINOGENICITY:

**NTP:** 2                      **IARC:** 2A                      **OSHA:** Not Listed.

**CHRONIC HEALTH HAZARD:** Although the significance is unknown, the epoxy resin in this product has been shown to be mutagenic in some micro-biological tests, but has failed to show mutagenicity in others. Chromosomal aberrations were observed in cultured rat liver cells.

### MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Not determined.

### EMERGENCY FIRST AID

**EYE** Immediately flush with plenty of water for at least 15 minutes. Get medical attention.

**SKIN CONTACT:** Wash with plenty of soap and water.

**INHALATION:** Remove to fresh air. Give oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.

**INGESTION:** Dilute with large quantities of water. Do not induce vomiting. Get immediate medical attention.

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## SECTION VII HANDLING PRECAUTIONS

**EPA WASTE #:** N/A  
**UN #:** 2023  
**DOT CLASSIFICATION:** Liquid Resin, N.O.I. - Non-Regulated  
**FREIGHT CODE:** 2005

### IN CASE OF RELEASE OR SPILLAGE

Contain spill. Wipe up or absorb with vermiculite or other absorbent material. Spilled material and water rinses are classified as chemical waste and must be disposed of in accordance with current local, state and federal regulations.

### WASTE DISPOSAL METHOD

Incineration by licensed chemical waste facility in accordance with current local, state and federal regulations.

### HANDLING AND STORAGE

Store in a cool, dry place; keep removed from any heat.

## SECTION VII SPECIAL PROTECTION / CONTROL MEASURES

### RESPIRATORY PROTECTION

NIOSH/MSHA respirator approved for organic vapors.

### VENTILATION

Use only with mechanical exhaust ventilation.

### SKIN PROTECTION

Wear proper protective gloves and clothing to prevent exposure.

### EYE PROTECTION

Wear proper protective goggles to prevent exposure.

### WORK HYGIENE PRACTICES

Remove contaminated clothing and wash before reusing.

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## SECTION IX ADDITIONAL INFORMATION

### SARA HAZARD CATEGORIES

IMMEDIATE (ACUTE) HEALTH HAZARD:	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>
DELAYED (CHRONIC) HEALTH HAZARD:	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>
FIRE HAZARD:	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>
REACTIVITY HAZARD:	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>
SUDDEN RELEASE OF PRESSURE:	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>

### SARA SECTION 313 NOTIFICATION

THIS PRODUCT DOES NOT CONTAIN A TOXIC CHEMICAL (OR CHEMICALS) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372.

### TSCA STATUS

All components of this product are listed in the EPA Toxic Substance Control Act Inventory.

### CANADIAN DSL STATUS

This product contains < 0.005% by weight of a substance that is not included on the Domestic Substance Inventory. All other components are present on the DSL.

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