

MATERIAL SAFETY DATA SHEET

Low Temperature Epoxy (L.T.E.) Clear Part A

SECTION I

Product Identification and General Information

Product Name: Low Temperature Epoxy Part A
Product Class: Epoxy Resin Mixture
HMIS Codes: H F R P
 2 1 0 G

Date Prepared: 11/10/2009
24 Hour Emergency Assistance: Chemtrec
1-800-424-9300

SECTION II

Hazardous Ingredients

Multifunctional Acrylate Monomer
Benzyl Alcohol
O-Cresyl Glycidyl Ether

<u>CAS#</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
15625-89-5	N/E	N/E
100-51-6	N/E	N/E
2210-79-9	N/E	N/E

SECTION III

Physical Data

Boiling Point: >200° F
Vapor Pressure: <.5 MM Hg at 20° C
Vapor Density: N/A
Specific Gravity: 1.1
Percent Volatiles: None

Solubility in Water: Partial
Evaporation Rate: N/A
Appearance: Light colored liquid
Odor: Slight

SECTION IV

Fire and Explosion Hazard Data

Flash Point: >200° F (SETA Flash c.c.)

LEL: N/E

UAL: N/E

Extinguishing media: Water, foam, dry chemical or CO₂

Hazardous Combustion Products: Carbon monoxide, aldehydes and acids

Special Fire Fighting Procedures: Material will not burn unless preheated. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus. Cool fire exposed containers with water.

Fire and Explosion Hazards: Heating this resin above 300° F in the presence of air may cause slow oxidative decomposition; above 500°F polymerization may occur. Fumes and vapors from these thermal and chemical decompositions vary widely in composition and toxicity. Do not breathe fumes.

SECTION V

Reactivity Data

Stability: Stable

Hazardous Polymerization: Will not occur

Incompatibility: Strong oxidizing agents, strong lewis or mineral acids, strong mineral and organic bases/especially primary and secondary aliphatic amines.

SECTION VI

Health Hazard Data

Primary Route of Entry: Skin contact

Eye Contact: Product may be severely irritating to the eyes

Skin Contact: Product may be moderately irritating to the skin. Prolonged contact may result in blisters. May cause skin sensitization.

Inhalation: Not expected to be a relevant route of exposure, however, under conditions where exposure to vapors or mists is possible, could cause respiratory tract irritation.

Ingestion: Not expected to be a relevant route of exposure, however, product may be slightly toxic if swallowed.

SECTION VII

First Aid

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention.

Skin: Remove contaminated clothing/shoes and wipe excess from skin. Flush skin with water. Follow by washing with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned. Contaminated leather articles, including shoes, cannot be decontaminated and should be destroyed to prevent reuse.

Ingestion: Do not induce vomiting. In general, no treatment is necessary unless large quantities of product are ingested. However, get medical advice.

Inhalation: Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.

SECTION VIII

Special Protection Information

Respiratory Protection: Avoid breathing vapors which may be produced under some conditions such as heating or applications of uncured material in large surface areas (e.g., flooring and painting). Use a NIOSH-approved respirator as required to prevent overexposure. Use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors.

Ventilation: Use ventilation as required to control vapor concentrations.

Eye Protection: Wear safety glasses or goggles as appropriate.

Skin Protection: Wear chemical-resistant gloves to minimize contact

SECTION IX

Spill or Leak Procedures

Steps to be taken if material is released or spilled: Wear respirator and protective clothing as appropriate.

Soak up residue with an absorbent such as clay, sand or other suitable material; dispose of properly.

Flush area with water to remove trace residue.

Waste Disposal Method: Dispose of in accordance with all local, state and federal regulations.

SECTION X

Shipping Data

D.O.T. Shipping Name: Paint Related Material

Technical Shipping Name: Epoxy Resin

D.O.T. Hazard Class: Not Regulated

UN/NA Number: N/A

Reportable Quantity: None

D.O.T. Labels Required: None

Freight Class: 55

MATERIAL SAFETY DATA SHEET

Low Temperature Epoxy (L.T.E.) Clear Part B

SECTION I

Product Identification and General Information

Product Name: Low Temperature Epoxy Part B
 Product Class: Aliphatic Amine
 HMIS Codes: H F R P
 3 1 0 G

Date Prepared: 11/10/2009
 24 Hour Emergency Assistance: Chemtrec
 1-800-424-9300

SECTION II

Hazardous Ingredients

<u>Hazardous Ingredients</u>	<u>CAS#</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Phenol	108-95-2	N/E	N/E
Benzene-1,3-Dimethanamine	14477-55-0	N/E	N/E
Benzene-1, 3-Dimethanamine, reaction products with phenol/formaldehyde	57214-10-5	N/E	N/E
Benzyl Alcohol	100-51-6	N/E	N/E

SECTION III

Physical Data

Boiling Point: >235° C
 Vapor Pressure: N/A
 Vapor Density: N/A
 Specific Gravity: 1.12
 Percent Volatiles: None

Solubility in Water: Slight
 Evaporation Rate: N/A
 Appearance: Medium viscosity amber liquid
 Odor: Phenolic

SECTION IV

Fire and Explosion Hazard Data

Flash Point: >230° F (Penske-Martin Closed Cup)
 LEL: N/A
 UAL: N/A

Extinguishing media: Water, alcohol foam, dry chemical or CO2

Hazardous Combustion Products: Carbon monoxide, CO2, ammonia, nitrogen oxides, nitriles and amides

Special Fire Fighting Procedures: Retain expended liquids from fire fighting for later disposal. Firefighters should wear butyl rubber boots, gloves, and body suit and a self-contained breathing apparatus.

Fire and Explosion Hazards: May generate toxic or irritating combustion products. Sudden reaction and fire may result if product is mixed with an oxidizing agent.

SECTION V

Reactivity Data

Stability: Stable

Hazardous Polymerization: Will not occur

Incompatibility: Oxidizing agents, chromerge, acids.

SECTION VI

Health Hazard Data

Primary Route of Entry: Skin and eye contact, inhalation

Eye Contact: Severe eye irritant. May cause burns, necrosis and permanent injury

Skin Contact: Severe skin irritant. May cause burns, necrosis and skin sensitization

Inhalation: Severe respiratory tract irritant. Inhalation of vapors may damage contacted tissue and produce scarring.

Ingestion: None known

SECTION VII

First Aid

Eyes: Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

Skin: Remove product and immediately flush affected area with water for at least 15 minutes. Call a physician. Contaminated leather wear should be discarded. Victims of a major skin area contact should remain under medical observation for at least 24 hours due to possible delayed effects.

Ingestion: If swallowed DO NOT INDUCE VOMITING. Give large quantities of water. Call a physician immediately. Never give anything by mouth to an unconscious person.

Inhalation: Move patient to fresh air. If breathing has stopped or is labored give assisted respiration (e.g. mouth-to-mouth). Call a physician.

SECTION VIII

Special Protection Information

Respiratory Protection: In poorly ventilated areas, a cartridge mask National Institute for Occupational Safety and Health (NIOSH) approved for organic vapors is recommended.

Ventilation: Use ventilation as required to control vapor concentrations.

Eye Protection: Splash-proof eye goggles. In emergency situations, use eye goggles with a full face shield.

Skin Protection: Wear nitrile rubber gloves.

SECTION IX

Spill or Leak Procedures

Steps to be taken if material is released or spilled: Cover minor spills with sodium bisulfate to neutralize and reduce vapors. Spray with water. Place in metal containers for recovery or disposal. Clean-up personnel must be equipped with self contained breathing apparatus and butyl rubber protective clothing.

Waste Disposal Method: Comply with all federal, state and local regulations. Incineration is acceptable and the preferred method of disposal.

SECTION X

Shipping Data

D.O.T. Shipping Name: Amines, Liquid Corrosive N.O.S.

Technical Shipping Name: Aliphatic Amine

D.O.T. Hazard Class: 8 Corrosive Liquid

UN/NA Number: UN2735

Reportable Quantity: N/A

D.O.T. Labels Required: Corrosive

Freight Class: 55

Packing Group: III