

MATERIAL SAFETY DATA SHEET

Epoxy 200 Clear - Part A

SECTION I

Product Identification and General Information

Product Name: Epoxy 200 Part A-Clear

Product Class: Epoxy Resin Solution

HMIS Codes: H F R P

3 1 0 G

Date Prepared: 4/22/99

24 Hour Emergency Assistance: Chemtrec

1-800-424-9300

SECTION II

Hazardous Ingredients

2-Propoxyethanol

Modified Epoxy Resin

Proprietary Diluent

<u>CAS#</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
2807-30-09	N/E	N/E
*	N/E	N/E
*	N/E	N/E

* Trade Secret

SECTION III

Physical Data

Boiling Point: >200°F

Vapor Pressure: <20 mm Hg at 20°C

Vapor Density: >1

Specific Gravity: 1.05

Percent Volatiles: 60

Solubility in Water: Miscible

Evaporation Rate: Slower than Butyl Acetate

Appearance: Milky White Liquid

Odor: Mild

SECTION IV

Fire and Explosion Hazard Data

Flash Point: >200° F

Flammable Limits:

LEL: N/A

UEL: N/A

Extinguishing media: Water fog, "Alcohol" foam, dry chemical or CO₂.

Hazardous Combustion Products: Carbon Monoxide, Carbon Dioxide and other Organic Compounds.

Special fire fighting procedures: Material will not burn unless preheated. Do not enter confined area without full protective gear including a positive pressure NIOSH approved self-contained breathing apparatus.

Fire and explosion hazards: Heating this material above 300°F in the presence of air may cause slow oxidative decomposition. Above 500°F Polymerization may occur fumes.

SECTION V

Reactivity Data

Stability: Stable

Hazardous Polymerization: Will not occur

Incompatibility: Can react vigorously with strong oxidizing agents Lewis or Mineral acids strong mineral and organic bases, especially primary and secondary aliphatic amines. Reaction with some curing agents may produce considerable heat.

SECTION VI

Health Hazard Data

Primary Route of Entry: Dermal, Inhalation

Eye Contact: Can cause severe irritation, redness, tearing and blurred vision.

Skin Contact: Can cause skin irritation. May cause skin sensitization.

Inhalation: May cause nasal and respiratory irritation. Central nervous system effects including dizziness, weakness, nausea and headache.

Ingestion: May cause gastrointestinal irritation including nausea, vomiting and diarrhea.

Chronic Overexposure: Skin sensitization may be evidenced by rashes.

SECTION VII

Emergency First Aid Procedures

Eye Contact: Immediately flush eyes with plenty of water for at least 15 min. while holding eyelids open. Seek medical attention.

Skin Contact: Immediately remove contaminated clothing. Wipe excess from skin and flush with plenty of water. Use soap if available. Do not reuse clothing until thoroughly cleaned. Seek medical attention.

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

Ingestion: Do not induce vomiting. If vomiting occurs spontaneously keep head below hips to prevent aspiration of liquid into the lungs. Seek medical attention.

SECTION VIII

Special Protection Information

Respiratory Protection: Wear NIOSH approved respirator for organic vapors to prevent overexposure.

Ventilation: Provide sufficient ventilation to maintain exposure below level of overexposure.

Eye Protection: Chemical splash goggles or other approved safety glasses.

Skin Protection: Wear chemical resistant gloves and other clothing as required to minimize contact.

SECTION IX

Spill or Leak Procedures

Steps to be taken if material is released or spilled:

Large Spill: Eliminate all ignition sources. Wear respirator and other protective clothing. Stop spill at source. Dike and contain spill. Pump or vacuum transfer spilled material to a clean recovery vessel. Soak up residue with absorbent material.

Small Spills: Absorbent material should be used to take up the spill.

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

Epoxy 200 Clear Part B

SECTION I

Product Identification and General Information

Product Name: Epoxy 200 Part B
Product Class: Modified Aliphatic Amine Solution
HMIS Codes: H F R P
2 1 0 G

Date Prepared: 8/18/00
24 Hour Emergency Assistance: Chemtrec
1-800-424-9300

SECTION II

Hazardous Ingredients

2-Propoxyethanol
Tetraethylenediamine

<u>CAS#</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
2807-30-9	N/E	N/E
112-57-2	N/E	N/E

SECTION III

Physical Data

Boiling Point: N/A
Vapor Pressure: N/A
Vapor Density: Heavier Than Air
Specific Gravity: 1.04
Percent Volatiles: <65

Solubility in Water: Miscible
Evaporation Rate: Slower than Butyl Acetate
Appearance: Cloudy Yellow Liquid
Odor: Mild

SECTION IV

Fire and Explosion Hazard Data

Flash Point: >212°F

Flammable Limits:

LEL: N/A

UEL: N/A

Extinguishing media: Water Fog, Alcohol Foam, Dry Chemical or CO₂.

Hazardous Combustion Products: Carbon Monoxide, Aldehydes, Acids and other Organic Compounds may be formed.

Special Fire Fighting Procedures: Material will not burn unless preheated. Do not enter confined fire space without full protective gear including a positive pressure, NIOSH approved self-contained breathing apparatus. Cool fire exposed containers with water.

Fire and Explosion Hazards: Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure build-up which could result in container rupture. Cool with large quantities of water.

SECTION V

Reactivity Data

Stability: Stable

Hazardous Polymerization: Will not occur

Incompatibility: Avoid heat and flames. May react vigorously with strong oxidizing agents, epoxy resins or isocyanates. Reactions may evolve considerable heat. May react vigorously with mineral or organic acids.

SECTION VI

Health Hazard Data

Primary Route of Entry: Dermal, inhalation, eye contact.

Eye Contact: May be severely irritating to the eyes. May cause corneal damage.

Skin Contact: May be moderately irritating to the skin. May be toxic or harmful if absorbed thru skin. May cause skin sensitization.

Inhalation: May cause irritation to the nose, throat and respiratory tract. May be toxic if inhaled. May cause respiratory tract sensitization.

Ingestion: May be moderately toxic and may be harmful if swallowed. May produce damage to the red blood cells.

Chronic Overexposure:

SECTION VII

First Aid

Eyes: Immediately flush eyes with copious amounts of water for 15 minutes. Seek medical attention.

Skin: Immediately remove contaminated clothing. Wipe excess from skin. Wash with plenty of soap and water.

Seek medical attention. Do not reuse clothing until thoroughly cleaned.

Ingestion: Do not induce vomiting. If vomiting occurs spontaneously keep the head below hips to prevent aspiration of liquid into the lungs. Seek medical attention.

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

SECTION VIII

Special Protection Information

Respiratory Protection: Avoid prolonged or repeated breathing of vapors. Use a NIOSH approved respirator for organic vapor to prevent overexposure.

Ventilation: Use explosion-proof ventilation as required to control vapor concentrations.

Eye Protection: Wear chemical goggles if there is a likelihood of contact with eyes.

Skin Protection: Avoid prolonged or repeated contact with the skin. Wear chemical resistant gloves and other clothing as required to minimize contact.

SECTION IX

Spill or Leak Procedures

Steps to be taken if material is released or spilled:

May burn although not readily ignitable. For Large Spills wear respirator and protective clothing. Shut off source of spill or leak, if safe to do so, dike and contain. Remove with vacuum truck or pump to salvage vessel. Soap up residue with absorbent material. Flush with water to remove trace residue.

Small Spills: Take up with an absorbent material and dispose of properly.

Waste Disposal Method: Dispose of waste in accordance to federal, state and local regulations.

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