



## SAFETY DATA SHEET

U.S. Department of Labor  
Occupational Safety & Health Administration

# Polaprime Epoxy Primer - Part A

## SECTION 1 - IDENTIFICATION

MANUFACTURER: Andek Corporation  
ADDRESS: 850 Glen Avenue, Moorestown, NJ 08057  
TELEPHONE: 1-856-786-6900  
In an emergency, contact CHEMTREC 1-800- 424-9300;  
Outside the United States call +1-703-527-3887  
PRODUCT IDENTIFIER: Polaprime Epoxy Primer - Part A  
RECOMMENDED USE: Industrial Primer

## SECTION 2 – HAZARD IDENTIFICATION

HAZARD CLASSIFICATION (EFFECTS OF EXPOSURE):

**Skin:** Irritant – Category 2 Sensitization – Category 1

**Ingestion:** Do Not ingest.

**Aquatic Toxicity:** Category 2

**SIGNAL WORD:** Warning - no hazard in normal industrial use.

### HAZARD STATEMENTS:

- May be harmful if swallowed.
- Causes mild skin irritation.
- May cause an allergic skin reaction.
- Causes eye irritation.

### PICTOGRAMS:



### PRECAUTIONARY STATEMENTS:

#### **Prevention:**

- **Do Not** get in eyes, on skin, or on clothing.
- Wash thoroughly after handling.
- Wear protective gloves/protective clothing/eye protection/face protection.

#### **Response:**

- **Skin:** Wash with plenty of water.
- **Eyes:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do and continue rinsing. If eye irritation persists get medical advice/attention.
- **Inhalation:** No specific measures.
- **Ingestion:** Rinse mouth. **Do Not** induce vomiting.

#### **Storage:**

- Store in a dry place. Store in a closed container.

#### **Disposal:**

- Waste disposal should be in accordance with existing federal, state and local environmental control laws.
- Incineration is the preferred method.

## **SECTION 3 – COMPOSITION**

<u>CHEMICAL NAME</u>	<u>CAS #</u>	<u>APPROX %</u>
Epoxy Resin	25068-38-6	83
C <sub>12</sub> -C <sub>14</sub> Aliphatic Glycidyl Ether	68609-97-2	17

## **SECTION 4 – FIRST AID MEASURES**

### **Skin:**

- **Do Not Delay** - Remove contaminated clothing and wash skin with water using soap if available.
- If persistent irritation occurs, obtain medical attention.

### **Eyes:**

- **Do Not Delay** - Flush eye with water.
- If persistent irritation occurs, obtain medical attention.

### **Inhalation:**

- No specific measures.

### **Ingestion:**

- **Do Not** induce vomiting.
- In the unlikely event of ingestion, obtain medical attention immediately.

### **Advice to physicians:**

- If skin sensitization has developed and a causal relationship has been confirmed further exposure should not be allowed.

## **SECTION 5 – FIRE-FIGHTING MEASURES**

### **Specific hazards:**

- Not classified as flammable but will burn.
- Carbon monoxide may be evolved if incomplete combustion occurs.

### **Extinguishing media:**

- **Small fires:** Dry chemical powder, carbon dioxide, foam, water spray or fog, sand or earth.
- **Large fires:** Foam, water spray or fog.

### **Unsuitable extinguishing media:**

- Water in a jet.

### **Protective equipment:**

- Full protective clothing and self-contained breathing apparatus.

### **Other Information:**

- Keep adjacent containers cool by spraying with water.

## **SECTION 6 – ACCIDENTAL RELEASE MEASURES**

### **Personal precautions:**

- Avoid contact with skin, eyes and clothing.

### **Personal protection:**

- Wear protective clothing specified for normal operations (see Section 8).

### **Environmental precautions:**

- Prevent contamination of soil and water.
- Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers.
- If material enters drains it should be pumped out into an open vessel. Emergency services may need to be called to assist in this operation.

### **Clean-up methods - small spillage:**

- Absorb or contain liquid with sand, earth or spill control material.
- Shovel up and place in a labeled, sealable container for subsequent safe disposal.
- Scrub contaminated surfaces with a detergent solution.
- Retain washings as contaminated waste.
- Put leaking containers in a labeled drum or over drum

### **Clean-up methods - large spillage:**

- Transfer to a labeled container for product recovery or safe disposal.
- Otherwise treat as for small spillage,

### **Other information:**

- See Section 13 for information on disposal.

## **SECTION 7 – HANDLING & STORAGE**

### **Handling:**

- Avoid contact with skin, eyes and clothing.

### **Storage:**

- Keep container tightly closed and dry.
- Palletized loads should be stacked to a maximum of 4 high.
- Storage temperatures: between 50°F and 90°F.

## **SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Exposure limits:**

CHEMICAL NAME	PEL	TLV (Oral toxicity)
Epoxy Resin	N/A	LD50 >8g/kg

### **Occupational exposure standards:**

- None established.

### **Inhalation protection:**

- Not normally required.
- In a confined space, wear half mask respirator with organic vapor cartridge and built-in particulate filter NPF 20 (gas only).

### **Eye protection:**

- Mono-goggles

### **Skin and body protections:**

- Nitrile rubber gloves or butyl rubber gloves, gauntlet type.
- Standard issue work clothes.
- Safety boots - chemical resistant without lace holes.

## **SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Low viscosity, Newtonian liquid

**Physical state:** Liquid

**Color:** Transparent, pale yellow

**Odor:** Slight

**Odor threshold:** None established

**pH:** 7.0

**Melting point/freezing point:** Crystallizes below 50°F / re-melts at above 100°F

**Initial boiling point and boiling range:** 390 to 400°F

**Flash point:** 302°F

**Evaporation rate:** Non volatile

**Flammability (solid, gas):** Not flammable but combustible at high temperatures

**Upper/lower flammability or explosive limits:** None established

**Vapor pressure:** 0.01 Pa @20°C

**Vapor density:** None established

**Relative density:** 1.14 kg/l

**Solubility:** Insoluble with water

**Partition coefficient: n-octanol/water:** 0g P<sub>ow</sub> >3

**Auto-ignition temperature:** 572°F

**Decomposition temperature:** None established

**Viscosity:** 600 centipoises @25°C

## **SECTION 10 – STABILITY AND REACTIVITY**

### **Reactivity:**

- Reacts with strong oxidizing agents.
- Polymerizes exothermically with amines, mercaptans and Lewis acids at ambient temperature and above.
- Polymerizes in contact with caustic soda.
- Reacts exothermically with bases (e.g. caustic soda), ammonia, primary and secondary amines, alcohols and acids.

### **Chemical stability:**

- Stable under normal use conditions.

### **Incompatibility (materials to avoid):**

- Strong oxidizing agents. Caustic soda.

### **Hazardous decomposition products:**

- Not expected to form during normal storage.

**Conditions to avoid:**

- Caustic soda can induce a vigorous polymerization at temperatures around 200°C.

**SECTION 11 – TOXICOLOGICAL INFORMATION****Likely routes of exposure:****Oral:**

- Unlikely, but if swallowed, epoxy resin has low toxicity in small amounts.
- Swallowing large amounts may cause injury.

**Inhalation:**

- Not irritating at room temperature.
- Vapor from heated products may cause irritation.

**Dermal:**

- Prolonged or repeated contact may cause skin irritation with local redness.
- Prolonged contact is unlikely to result in absorption of harmful amounts.
- Sensitization may occur in some individuals.

**Effects from short and long term exposure:**

- Many studies have been conducted including a recent review by the international agency for research on cancer (IARC) to assess the potential carcinogenicity of epoxy resin.
- All available data concludes that it is not classifiable as to its carcinogenicity or mutagenicity.

**Numerical measures of toxicity:**

CHEMICAL NAME	Oral LD50	Dermal LD50	Inhalation LC50
Epoxy Resin	>2,000 mg/kg	>2,000 mg/kg	N/A

**SECTION 12 – ECOLOGICAL INFORMATION**

**Ecotoxicity:** Fish LC50 (96 hr) = 1.41 mg/l    Crustaceans EC50 (48 hr) = 1.7 mg/l

**Biodegradation:** Not readily biodegradable but will degrade slowly on the surface by photodegradation.

**Bioaccumulation potential:** It has the potential to bioaccumulate with an octanol/water partition coefficient log  $P_{ow}$  of >3.

**Mobility in soil:** Epoxy resin will bind to soil particles but it is insoluble in water and will sink to the bottom.

**Other adverse effects:** This epoxy resin is a reaction product of Bisphenol A and Epichlorohydrin. There have been numerous studies conducted to assess the ecological characteristics of both of these substances. None, however, were determined to be relevant in this instance.

**SECTION 13 – DISPOSAL CONSIDERATIONS**

**Precautions:** See Section 8. Refer to Section 7 before handling the product or containers.

**Disposal of waste/ product:**

- Recover or recycle if possible.
- Otherwise incineration or dispose to licensed disposal contractor.

**Disposal of contaminated packaging:**

- Drain container thoroughly.
- Rinse three times with suitable solvent. Treat rinsings as for product disposal.
- After draining, vent in a safe place away from sparks and fire.
- Send to drum recoverer or metal reclaimer.

**SECTION 14 – TRANSPORT INFORMATION**

UN #	None
UN PROPER SHIPPING NAME:	Paint
HAZARD CLASS:	N/A
PACKING GROUP:	N/A
ENVIRONMENTAL HAZARDS:	Not a marine pollutant
GUIDANCE ON TRANSPORT IN BULK:	N/A

**Transport labels required:** This material is not regulated by the D.O.T.

## **SECTION 15 – REGULATORY INFORMATION**

### **US Federal Regulation:**

**SARA 311/312 Hazard Categories:** Not listed

**US State Right to Know Regulations:** New Jersey, Massachusetts, Pennsylvania, Rhode Island

CHEMICAL NAME	CAS #
Epoxy Resin	25068-38-6

**CA Prop 65:** Not listed

### **Canada**

CHEMICAL NAME	CAS#
Epoxy Resin	25068-38-6

## **SECTION 16 – OTHER INFORMATION (HMIS RATING)**

Health	1
Flammability	1
Physical Hazard	0
Personal Protection	H

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