

This Material Safety Data Sheet (MSDS) has been prepared in compliance with the FEDERAL OSHA COMMUNICATION STANDARD 29 CFR 1910.1200.

**Distributor: Poly Solutions, Inc.**  
230 Laurel Avenue  
Gibsonia, PA 15044

**Phone:724-449-1040**  
**Emergency:800-456-4491**  
**Revised: 10/01**

<b>MATERIAL SAFETY DATA SHEET</b>
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**SECTION I: IDENTITY INFORMATION**

**IDENTITY (TRADE NAME): Poly Prep - PART A**  
**FAMILY/CHEMICAL NAME:** Diglycedal ether of Bisphenol A  
**PRODUCT TYPE:** Coating

**SECTION II: HAZARDOUS INGREDIENTS**

**SPECIFIC CHEMICAL NAME:** Bisphenol A type epoxy resin (4,4' isopropyl, dene-diphenol epichlorhydrin resin)

**CAS #:** 25068-38-6

**EXPOSURE LIMITS:**

OSHA PEL: Not established

ACGIH TLV: Not established

**CARCINOGENICITY:**

IARC: NO NTP: NO OSHA:NO ACGIH: NO OTHER: NO

**SPECIFIC CHEMICAL NAME:** Titanium dioxide (TiO<sub>2</sub>)

**CAS #:** 1363-67-1

**EXPOSURE LIMITS:**

OSHA PEL: 15mg/m (total dust)

ACGIH TLV: 15mg/m (total dust)

**CARCINOGENICITY:**

IARC: NO NTP: NO OSHA:NO ACGIH: NO OTHER: NO

**SPECIFIC CHEMICAL NAME:** Proprietary

**CAS #:**

**EXPOSURE LIMITS:**

OSHA PEL: Not established

ACGIH TLV: Not established

**CARCINOGENICITY:**

IARC: NO NTP: NO OSHA:NO ACGIH: NO OTHER: NO

**SECTION III : PHYSICAL DATA**

**APPEARANCE AND ODOR:** White liquid

**SPECIFIC GRAVITY:** 1.2

**SOLUBILITY IN WATER:** Slightly soluble

**FREEZING POINT:** N/A

**BOILING POINT (760 mm Hg):** Greater than 300F

**% VOLATILE BY VOL:** Zero

**MELTING POINT:** Not applicable

**VISCOSITY:** >12,000 cps

**SECTION IV : FIRE AND EXPLOSION HAZARD DATA**

**FLASH POINT:** >300 F, Open cup, coating only

**EXTINGUISHING MEDIA:** Water spray, CO<sub>2</sub>, dry chemical

**FIRE FIGHTING PROCEDURES - SPECIAL:** Cool exposed containers with water spray. Self-contained breathing apparatus in confined areas.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None

## SECTION V : REACTIVITY DATA

**STABILITY:** Stable

**CONDITIONS TO AVOID:** High temperatures

**INCOMPATIBILITY:** Strong oxidizers

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, carbon dioxide, aldehydes

**HAZARDOUS POLYMERIZATION:** Will not occur

## SECTION VI : HEALTH HAZARD DATA

**EYE:** May cause slight transient (temporary) eye irritation. Corneal injury is unlikely.

**SKIN CONTACT:** Prolonged exposure is not likely to cause significant skin irritation. Repeated exposure may cause skin irritation. Has caused allergic skin reaction in humans.

**SKIN ABSORPTION:** A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. The LD50 for skin absorption in rabbits is 20,000 mg/kg.

**INGESTION:** Single dose oral toxicity is low. The oral LD50 for rats is >5,000 mg/kg. No hazards anticipated from swallowing small amounts incidental to normal handling operations.

**INHALATION:** Vapors are unlikely due to physical properties.

**SYSTEMATIC(OTHER TARGET ORGANS) EFFECTS:** Except for skin sensitization, repeated exposures to low molecular weight diglycidyl ether of bisphenol A are not anticipated to cause any significant adverse effects.

**CANCER INFORMATION:** A poorly characterized sample of low molecular weight diglycidyl ether of bisphenol A has been reported to produce skin cancer in a highly sensitive strain of mice. However, high levels of impurities (including a known animal skin carcinogen) compromise the validity of the findings. Diglycidyl ether of bisphenol A that is representative of current manufacturing processes is not believed to be a cancer hazard to humans.

**TERATOLOGY (BIRTH DEFECTS):** Did not cause birth defects or other adverse effects of the fetus when pregnant rabbits were exposed by skin contact, the most likely route of exposure.

## EMERGENCY AND FIRST AID PROCEDURES:

**EYES:** Immediately flush eyes with water for 10 minutes.

**SKIN:** Wash with mild soap and water.

**INGESTION:** If conscious, give large quantities of water. Induce vomiting.

**INHALATION:** Remove to fresh air.

**OTHER:** Remove contaminated clothing.

## SECTION VII : SPILL OR LEAK PROCEDURES

**SPILL PROCEDURES:** Avoid all personal contact. Take up with absorbent material. Use closable containers. Flush area with water.

**WASTE DISPOSAL METHODS:** Dispose in accordance with federal, state, and local regulations.

## SECTION VIII : SPECIAL PROTECTION INFORMATION

**VENTILATION:** Good general mechanical ventilation and local exhaust.

**PROTECTIVE GLOVES:** Wear impervious gloves.

**EYE PROTECTION:** Wear splash-proof chemical goggles.

**RESPIRATORY PROTECTION:** Use NIOSH approved respirator for organic vapors. IF REQUIRED.

**OTHER PROTECTIVE EQUIPMENT:** Use equipment necessary to prevent skin or eye contact.

## SECTION IX : SPECIAL PRECAUTIONS AND PROTECTION

**HANDLING, SHIPPING AND STORING PRECAUTIONS:** Avoid contact with skin, eyes and clothing. Store above freezing (32 F). Do not taste. Avoid breathing mists or vapors. Wash thoroughly after handling. Keep containers closed when not in use. Use with adequate ventilation.

## SECTION X : REGULATORY INFORMATION

**DOT CLASS:** Not regulated

**SARA:** Health: 1 Fire: 1 Reactivity: 1

**RCRA STATUS:** Not a hazardous waste

**CERCLA STATUS:** Not listed

**FOR FURTHER INFORMATION: CONTACT Poly Solutions, Inc.** THE INFORMATION AND RECOMMENDATIONS IN THIS DATA SHEET ARE BASED UPON DATA BELIEVED TO BE CORRECT. NO GUARANTEE OR WARRANTY OF ANY KIND IS EXPRESSED OR IMPLIED IS MADE WITH RESPECT TO THE ABOVE INFORMATION

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**SECTION I: IDENTITY INFORMATION**

**IDENTITY (TRADE NAME): Poly Prep- PART B**

**FAMILY/CHEMICAL NAME: ALIPHATIC POLYAMINES/AMIDO POLYAMINES**

**PRODUCT TYPE: COATINGS**

**SECTION II: HAZARDOUS INGREDIENTS**

**SPECIFIC CHEMICAL NAME:** Aliphatic polyamine

**CAS #:** Not available

**EXPOSURE LIMITS:**

OSHA PEL: Not established

ACGIH TLV: Not established

**CARCINOGENICITY:**

IARC: NO NTP: NO OSHA:NO ACGIH: NO OTHER: NO

**SPECIFIC CHEMICAL NAME:** Titanium dioxide (TiO<sub>2</sub>)

**CAS #:** 1363-67-1

**EXPOSURE LIMITS:**

OSHA PEL: 15mg/m (total dust)

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**EXPOSURE LIMITS:**

OSHA PEL: Not established

ACGIH TLV: Not established

**CARCINOGENICITY:**

IARC: NO NTP: NO OSHA:NO ACGIH: NO OTHER: NO

**SPECIFIC CHEMICAL NAME:** Amidopolyamine

**CAS #:** 68410231

**EXPOSURE LIMITS:**

OSHA PEL: Not established

ACGIH TLV: Not established

**CARCINOGENICITY:**

IARC: NO NTP: NO OSHA:NO ACGIH: NO OTHER: NO

**SECTION III : PHYSICAL DATA**

**APPEARANCE AND ODOR:** White liquid

**SPECIFIC GRAVITY:** 1.25

**SOLUBILITY IN WATER:** Slightly

**FREEZING POINT:** N/A

**BOILING POINT (760 mm Hg):** Not available      **%VOLATILES BY VOL:** Zero

**MELTING POINT:** Not applicable      **VISCOSITY:** 3,000 - 5,000 cps

**SECTION IV : FIRE AND EXPLOSION HAZARD DATA**

**FLASH POINT:** Not available

**EXTINGUISHING MEDIA:** Water spray, CO<sub>2</sub>, dry chemical

**FIRE FIGHTING PROCEDURES - SPECIAL:** Cool exposed containers with water spray. Self-contained breathing apparatus in contained areas.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None

#### SECTION V : REACTIVITY DATA

**STABILITY:** Stable

**CONDITIONS TO AVOID:** High temperatures

**INCOMPATIBILITY:** Strong mineral acids

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, carbon dioxide, oxides of nitrogen.

**HAZARDOUS POLYMERIZATION:** Will not occur

#### SECTION VI : HEALTH HAZARD DATA

##### **PRIMARY ROUTES OF EXPOSURE:**

**Skin Irritation:** Can cause mild exposure

**Eye Irritation:** May cause irritation

**Sensitization:** Potential sensitization under long exposure

**Overexposure effects:** Mild irritation, potential sensitization, and dermatitis.

**Medical conditions aggravated by exposure:** Allergy or skin conditions

##### **EMERGENCY AND FIRST AID PROCEDURES:**

**EYES:** Immediately flush with water for 10 minutes

**SKIN:** Wash with mild soap and water

**INGESTION:** If conscious, give large quantities of milk. Do not induce vomiting

**INHALATION:** Remove to fresh air. Administer oxygen if available and necessary

**OTHER:** Remove contaminated clothing.

#### SECTION VII : SPILL OR LEAK PROCEDURES

**SPILL PROCEDURES:** Avoid all personal contact. Take up with absorbent material. Use closable containers, Flush area with water.

**WASTE DISPOSAL METHODS:** Dispose in accordance with federal, state and local regulations.

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#### SECTION X : REGULATORY INFORMATION

**DOT CLASS:** Not regulated

**SARA:** Health: 1 Fire: 1 Reactivity: 1

**RCRA STATUS:** Not a hazardous waste

**CERCLA STATUS:** Not listed

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