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Issue Date 20-Jul-2015

Revision Date 20-Jul-2015

Version 4

## 1. Identification of the Substance/Preparation and of the Company/Undertaking

### Product Identifier

Product name KEY 87-269A

### Other Means of Identification

Product Code 87-269A  
Product Technology Epoxy A side  
Document Smooth Move Part A  
None

Epoxy A side. FOR INDUSTRIAL USE ONLY.  
Restrictions on use: Do not use this product for any use other than intended

### Manufacturer Address

Key Polymer Corporation  
17 Shepard Street  
Lawrence, MA 01843, USA

Company Phone Number 978-683-9411 (8AM - 5PM EST) (M-F)

Emergency Telephone Chemtrec 1-800-424-9300 (24 Hours)

Chemtrec International Phone +1 703 527-3887

## 2. Hazards Identification

### Classification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS). This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1

## EMERGENCY OVERVIEW

### WARNING

#### Hazard Statements

Causes skin irritation  
Causes serious eye irritation  
May cause an allergic skin reaction

**Appearance** Clear Pale straw**Physical State** Liquid**Odor** Mild**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
 Wear protective gloves, protective clothing, eye protection, face protection  
 Avoid breathing dust, fumes, or vapors  
 Contaminated work clothing should not be allowed out of the workplace

**Precautionary Statements - Response**

Call a POISON CENTER or doctor/physician if you feel unwell  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 If eye irritation persists: Get medical advice/attention  
 IF ON SKIN: Wash with plenty of soap and water  
 Take off contaminated clothing and wash before reuse  
 If skin irritation or rash occurs: Get medical advice/attention

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements - Disposal**

Dispose of contents/container in accordance with local/regional/international regulations

**Hazards Not Otherwise Classified (HNOC)****Other Information**

Toxic to aquatic life with long lasting effects  
 60.00000011% of the mixture consists of ingredient(s) of unknown toxicity

### 3. Composition/Information on Ingredients

**Chemical Family** Epoxy A Side  
**Chemical nature** Epoxy resin mixture.

Chemical Name	CAS No	Weight-%	Trade secret
Proprietary epoxy resin	Proprietary	20 - 50	*
Bisphenol A diglycidyl ether resin	25068-38-6	20 - 50	*

\* The exact percentage (concentration) of composition may have been withheld as a trade secret.

### 4. First Aid Measures

**FIRST AID MEASURES**

**General Advice** Use first aid treatment according to the nature of the injury. For further assistance, contact your local Poison Control Center. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.

<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.
<b>Inhalation</b>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
<b>Ingestion</b>	Not an expected route of exposure. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
<b>Self-Protection of the First Aider</b>	First Aider: Pay attention to self-protection. Use personal protective equipment as required.

#### **Most Important Symptoms and Effects, Both Acute and Delayed**

**Symptoms** No information available.

#### **Indication of Any Immediate Medical Attention and Special Treatment Needed**

**Note to Physicians** Treat symptomatically.

### **5. Fire-Fighting Measures**

#### **Suitable Extinguishing Media**

Use CO2, dry chemical, or foam

**Unsuitable Extinguishing Media** Caution: Use of water spray when fighting fire may be inefficient.

#### **Specific Hazards Arising From the Chemical**

Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water ways. Dike for water control.

#### **Hazardous Combustion Products**

Irritating or toxic substances may be emitted upon burning, combustion or decomposition. See Section 10 Hazardous Decomposition Products for additional information.

#### **Explosion Data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### **6. Accidental Release Measures**

#### **Personal Precautions, Protective Equipment and Emergency Procedures**

**Personal Precautions** Ventilate affected area. Extremely slippery when spilled.

**Other Information** Use personal protective equipment as required.

**For Emergency Responders** Use personal protective equipment as required.

#### **Environmental Precautions**

**Environmental Precautions** See Section 12 for additional Ecological Information. Do not allow into any sewer, on the ground or into any body of water.

#### **Methods and Material for Containment and Cleaning Up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

## 7. Handling and Storage

### Precautions for Safe Handling

**Advice on Safe Handling** Handle in accordance with good industrial hygiene and safety practice.

### Conditions for Safe Storage, Including any Incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Store and handle away from heat, flames and oxidizing materials.

**Incompatible Materials** Strong oxidizing agents. Strong acids. Strong bases.

## 8. Exposure Controls/Personal Protection

### Control Parameters

**Exposure Guidelines**  
**Appropriate Engineering Controls**

**Engineering Controls** Showers  
Eyewash stations  
Ventilation systems

### Individual Protection Measures, Such As Personal Protective Equipment

**Eye/Face Protection** Splash Goggles.

**Skin and Body Protection** Wear protective gloves and protective clothing.

**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and Chemical Properties

### Information on Basic Physical and Chemical Properties

<b>Physical State</b>	Liquid	<b>Odor</b>	Mild
<b>Appearance</b>	Clear	<b>Odor Threshold</b>	No information available
<b>Color</b>	Pale straw		
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
<b>pH</b>	No information available		
<b>Melting Point/Freezing Point</b>	No information available		
<b>Boiling Point/Boiling Range</b>	> 150 °C		
<b>Flash Point</b>	> 100 °C	CC (closed cup)	
<b>Evaporation Rate</b>	Nil		
<b>Flammability (Solid, Gas)</b>	No information available		
<b>Flammability Limits in Air</b>			
<b>Upper Flammability Limits</b>	No information available		
<b>Lower Flammability Limit</b>	No information available		
<b>Vapor Pressure</b>	No information available		
<b>Vapor Density</b>	Heavier than air		

<b>Specific Gravity</b>	1.132
<b>Water Solubility</b>	Negligible
<b>Solubility in Other Solvents</b>	No information available
<b>Partition Coefficient</b>	No information available
<b>Autoignition Temperature</b>	No information available
<b>Decomposition Temperature</b>	No information available
<b>Kinematic Viscosity</b>	No information available
<b>Dynamic Viscosity</b>	No information available
<b>Explosive Properties</b>	No information available
<b>Oxidizing Properties</b>	No information available

**Other Information**

<b>Softening Point</b>	No information available
<b>Molecular Weight</b>	No information available
<b>VOC Content (%)</b>	No information available
<b>Density</b>	9.4 pounds/gallon
<b>Bulk Density</b>	No information available

## 10. Stability and Reactivity

**Reactivity**

No data available

**Chemical Stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

Hazardous polymerization does not occur.

**hazardous polymerization**      None under normal processing.

**Conditions to Avoid**

Keep out of reach of children. Extremes of temperature and direct sunlight. Mixture with or exposure to incompatible materials.

**Incompatible Materials**

Strong oxidizing agents. Strong acids. Strong bases.

**Hazardous Decomposition Products**

Carbon monoxide. Carbon Dioxide (CO<sub>2</sub>). Aldehydes. Aromatic hydrocarbons. Nitrogen oxides (NO<sub>x</sub>). May emit toxic fumes under fire conditions.

## 11. Toxicological Information

**Information on Likely Routes of Exposure**

<b>Product Information</b>	The product has not been tested		
<b>Inhalation</b>	Remove to fresh air.		
<b>Eye Contact</b>	Avoid contact with eyes. Severely irritating to eyes.		
<b>Skin Contact</b>	Avoid contact with skin. Irritating to skin. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.		
<b>Ingestion</b>	Not an expected route of exposure. Harmful if swallowed.		

Chemical Name	Oral LD50 (Rat)	Dermal LD50 (Rabbit)	Inhalation LC50
Bisphenol A diglycidyl ether resin 25068-38-6	= 11400 mg/kg (Rat)	-	-

**Information on toxicological effects**

No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Skin corrosion/irritation</b>	Repeated or prolonged contact may cause skin irritation and dermatitis. Irritating to skin.
<b>Serious eye damage/eye irritation</b>	Irritating to eyes.
<b>Irritation</b>	Irritating to eyes and skin.
<b>Sensitization</b>	May cause sensitization of susceptible persons. Repeated or prolonged contact may cause allergic reactions in very susceptible persons.
<b>Germ Cell Mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
<b>Reproductive Toxicity</b>	No information available.
<b>STOT - Single Exposure</b>	No information available.
<b>STOT - Repeated Exposure</b>	No information available.
<b>Chronic Toxicity</b>	Repeated contact may cause allergic reactions in very susceptible persons.
<b>Aspiration Hazard</b>	No information available.

**Numerical Measures of Toxicity - Product Information**

<b>Unknown Acute Toxicity</b>	60.00000011% of the mixture consists of ingredient(s) of unknown toxicity
<b>The following values are calculated based on chapter 3.1 of the GHS document</b>	
<b>ATEmix (oral)</b>	11431 mg/kg
<b>ATEmix (dermal)</b>	3204 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	123 mg/l

**12. Ecological Information****Ecotoxicity**

No information available  
60.025% of the mixture consists of components(s) of unknown hazards to the aquatic environment

**Persistence and Degradability**

No information available

**Other Adverse Effects**

No information available

**13. Disposal Considerations****Waste Treatment Methods**

<b>Disposal of Wastes</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Contaminated Packaging</b>	Do not reuse container.

**14. Transport Information**

**DOT** Not regulated

**ICAO (air)**

<b>UN/ID no</b>	UN3082
<b>Proper Shipping Name</b>	Environmentally Hazardous substance Liquid N.O.S. (Bisphenol A epoxy resin)

<b>Hazard Class</b>	9
<b>Packing group</b>	III
<b>Special Provisions</b>	A197 - Not restricted provided that the net quantity in any receptacle does not exceed 5 Kg or 5 L and the packaging meets defined standards

**IATA**

<b>UN/ID no</b>	UN3082
<b>Proper Shipping Name</b>	Environmentally Hazardous substance Liquid N.O.S. (Bisphenol A epoxy resin)
<b>Hazard Class</b>	9
<b>Packing group</b>	III
<b>Special Provisions</b>	A197 - Not restricted provided that the net quantity in any receptacle does not exceed 5 Kg or 5 L and the packaging meets defined standards

**IMDG**

<b>UN/ID no</b>	UN3082
<b>Proper Shipping Name</b>	Environmentally Hazardous Substance Liquid N.O.S. (Bisphenol A epoxy resin)
<b>Hazard Class</b>	9
<b>Packing group</b>	III
<b>Special Provisions</b>	A197 - Not restricted provided that the net quantity in any receptacle does not exceed 5 Kg or 5 L and the packaging meets defined standards
<b>Marine pollutant</b>	This material meets the definition of a marine pollutant

<b>15. Regulatory Information</b>
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**International Inventories**

**TSCA** All components of this product are either exempt or included on the TSCA Inventory in compliance with the Toxic Substances Control Act.

**Legend:**

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*

*DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List*

**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	Yes
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations**

The following chemicals may be contained in this product in de minimis amounts not required for listing in section 3. However, these chemicals do appear on some state Right-to-Know (RTK) and/or other hazardous substance lists. Please check your state's listings for more information.

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals

<b>Chemical Name</b>	<b>California Proposition 65</b>
Glycidyl phenyl ether - 122-60-1	Carcinogen Male Reproductive
toluene - 108-88-3	Developmental Female Reproductive
Benzene - 71-43-2	Carcinogen Developmental Male Reproductive

#### **U.S. State Right-to-Know Regulations**

#### **U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

### 16. Other Information

**HMIS**                      **Health Hazards** 2                      **Flammability** 1                      **Physical Hazards** 0                      **Personal Protection** X

**Prepared by**                                      Key Polymer Corp Compliance  
**Issue Date**                                      20-Jul-2015  
**Revision Date**                                    20-Jul-2015

#### **Revision note**

No information available

#### **Disclaimer**

**The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

**End of Safety Data Sheet**