

PRODUCT NAME: PC2031A  
 TRADE NAME: KEY TOUGH-SEAL 31 PART A

HMIS CODES:  
 0 = NONE ... 4 = EXTREME  
 HEALTH : 2  
 CHRONIC INDICATOR:  
 FIRE : 1  
 REACTIVITY: 0  
 PERSONAL PROTECTION: Bnpq

===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: Key Polymer Corporation  
 ADDRESS : 17 Shepard St.  
 Lawrence, Ma. 01843

CHEMTREC EMERGENCY PHONE: (800) 424-9300      DATE PRINTED : 7/24/2014  
 INFORMATION PHONE : (978) 683-9411  
 CHEMTREC INTERNATIONAL PHONE: (703) 527-3887      DATE LAST REVISED: July 2014

===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mm Hg @ TEMP	WEIGHT PERCENT
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLORHYDRIN COPOLYMER	25068-38-6	1      180C	>85
Not Established			
ORGANO TIN COMPOUND DISSOLVED IN ORGANIC SOLVENT	MIXTURE	0.75      20°C	5 to 15
OSHA Z1, PEL, ACGIH, TWA 0.1 mg/m3 as Sn			
STEL (skin), ACGIH 0.2 mg/m3 as Sn			
ACGIH, SKIN_DES Can be absorbed through the skin.			
Glycidyl Ether of C12-C14 Alcohol	68609-97-2	< 1mm Hg 25C	1.0 to 5.0

SARA 313: No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present.

===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

APPEARANCE AND ODOR: Off White Liquid No odor  
 SOLIDS IN WEIGHT %: No Data  
 WEIGHT PER GALLON: 9.6 lb/gl      SPECIFIC GRAVITY (H2O=1): 1.153  
 BOILING RANGE: >200øC  
 EVAPORATION RATE: No Data  
 VAPOR DENSITY: No Data

===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

OSHA FLAMMABILITY CLASS: Not regulated, Class IIIB  
 FLASH POINT: >390øF      METHOD USED: CC  
 FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER (LEL): No Data      UPPER (UEL): No Data

EXTINGUISHING MEDIA: Foam, Carbon Dioxide or Dry Chemical

SPECIAL FIREFIGHTING PROCEDURES: Wear positive pressure self-contained NOISH approved breathing equipment.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Sealed container may rupture. Keep cool

with water.

===== SECTION V - REACTIVITY DATA =====

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** Mixture with or exposure to incompatible materials (see below.) Elevated temperatures

**INCOMPATIBILITY (MATERIALS TO AVOID):** Strong oxidizing agents   Strong acids  
Strong bases   Amines

**HAZARDOUS DECOMPOSITION BYPRODUCTS:** Carbon monoxide   Carbon dioxide  
Aldehydes   Aromatic hydrocarbons

===== SECTION VI - HEALTH HAZARD DATA =====

**HEALTH HAZARDS (ACUTE AND CHRONIC):** Liquid contact with eyes or skin may cause irritation. Vapors/mists may cause eye and respiratory irritation. Overexposure to liquid may cause sensitization, dermatitis and allergic skin reaction.

**EMERGENCY AND FIRST AID PROCEDURES:**

**INHALATION:** Remove to fresh air.

**EYE CONTACT:** Flush with water for 15 minutes with lids open. Seek medical attention.

**SKIN CONTACT:** Remove contaminated clothing. Wash affected area with soap and water.

**CARCINOGENICS:**

No carcinogenic substances as defined by IARC, NTP, or OSHA.

**NTP CARCINOGEN:** No      **IARC MONOGRAPHS:** No      **OSHA REGULATED:**  
No

=====SECTION VII - PROCEDURES FOR SAFE HANDLING AND USE; SPILLS; DISPOSAL =====

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Store and handle away from heat, flames and oxidizing materials.

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Ventilate area. Spill area will be slippery. Contain spill. Recover as much as possible for reuse. Spread commercial absorbant over remainder and place into sealed containers for disposal.

**WASTE DISPOSAL METHOD:** Dispose in accordance with local, state and federal

regulations. Most states prohibit disposal of liquids in landfills.

**OTHER PRECAUTIONS:** As with all chemicals, good industrial hygiene and proper work habits should be observed.

===== SECTION VIII - PERSONAL PROTECTION RECOMMENDATIONS =====

**RESPIRATORY PROTECTION:** For confined areas or areas with poor ventilation, use an organic vapors cartridge type respirator.

**VENTILATION:** Mechanically exhaust vapors at point(s) of application. If applicable, maintain airborne contaminant levels of chemicals below their recommended TLV's. (See section II)

**PROTECTIVE GLOVES:** Impervious.

**EYE PROTECTION:** Splash Goggles.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** No Data

**WORK/HYGIENIC PRACTICES:** Wash thoroughly before eating or smoking.

===== SECTION IX - DISCLAIMER =====

It is a violation of federal law to use this product in a manner inconsistent with its labeling. The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

Since the use of this information, these opinions and the conditions of use of the product are not within the control of the Key Polymer Company, it is the user's obligation to determine the conditions of safe use of the product.

.  
TSCA: Unless listed elsewhere in this section, all components of this product are listed on the TSCA Inventory or are exempt.  
.

PRODUCT NAME: PC2031B  
 TRADE NAME: TOUGH-SEAL 31 PART B

HMIS CODES:  
 0 = NONE ... 4 = EXTREME  
 HEALTH : 2  
 CHRONIC INDICATOR:  
 FIRE : 1  
 REACTIVITY: 0  
 PERSONAL PROTECTION: B

===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: Key Polymer Corporation  
 ADDRESS : 17 Shepard St.  
 Lawrence, Ma. 01843

CHEMTREC EMERGENCY PHONE: (800) 424-9300      DATE PRINTED : 7/24/2014  
 INFORMATION PHONE : (978) 683-9411  
 CHEMTREC INTERNATIONAL PHONE: (703) 527-3887      DATE LAST REVISED: July 2014

===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mm Hg @ TEMP	WEIGHT PERCENT
TRIS 2,4,6 (DIMETHYLAMINOETHYL) PHENOL	90-72-2		5 to 15
AMINO SILANE	PROPRIETARY	<1.00    20°C	1.0 to 5.0

SARA 313: No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present.

===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

APPEARANCE AND ODOR: Black Liquid No odor  
 SOLIDS IN WEIGHT %: 100  
 WEIGHT PER GALLON: 8.5 lb/gl      SPECIFIC GRAVITY (H2O=1): 1.021  
 BOILING RANGE: >212øF  
 EVAPORATION RATE: No Data  
 VAPOR DENSITY: N/A

===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

OSHA FLAMMABILITY CLASS: Not regulated, Class IIIB  
 FLASH POINT: >390øF      METHOD USED: No Data  
 FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER (LEL): No Data      UPPER (UEL): No Data

EXTINGUISHING MEDIA: Foam, Carbon Dioxide or Dry Chemical

SPECIAL FIREFIGHTING PROCEDURES: Wear positive pressure self-contained NOISH approved breathing equipment.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Sealed container may rupture. Keep cool with water.

===== SECTION V - REACTIVITY DATA =====

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** Mixture with or exposure to incompatible materials (see below.) Excessive Moisture. Avoid heat, sparks and flames.

**INCOMPATIBILITY (MATERIALS TO AVOID):** Strong oxidizing agents   Strong acids  
Water   Will cause some corrosion to copper alloys and aluminum.   Organic acids  
Mineral Acids

**HAZARDOUS DECOMPOSITION BYPRODUCTS:** Carbon monoxide   Carbon dioxide   Various hydrocarbons

===== SECTION VI - HEALTH HAZARD DATA =====

**HEALTH HAZARDS (ACUTE AND CHRONIC):** Vapors/mists may cause eye and respiratory irritation. Liquid contact is corrosive to the skin or eyes. Severe damage or skin sensitization may occur.

**EMERGENCY AND FIRST AID PROCEDURES:**

**INHALATION:** Remove to fresh air.

**EYE CONTACT:** Flush with water for 15 minutes with lids open. Seek medical attention.

**SKIN CONTACT:** Remove contaminated clothing. Wash affected area with soap and water.

**CARCINOGENICS:**

No carcinogenic substances as defined by IARC, NTP, or OSHA.

**NTP CARCINOGEN:** No      **IARC MONOGRAPHS:** No      **OSHA REGULATED:**  
No

=====SECTION VII - PROCEDURES FOR SAFE HANDLING AND USE; SPILLS; DISPOSAL =====

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Store in tightly closed containers to prevent moisture contamination. Before resealing it is best to blanket the headspace of the container with inert gas or very dry air.

If moisture contamination is suspected, do not mix with isocyanate activator, as severe foaming may occur.

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Ventilate area. Spill area will be slippery. Contain spill. Recover as much as possible for reuse. Spread commercial absorbant over remainder and place into sealed containers for disposal.

**WASTE DISPOSAL METHOD:** Dispose in accordance with local, state and federal

regulations. Most states prohibit disposal of liquids in landfills.

**OTHER PRECAUTIONS:** As with all chemicals, good industrial hygiene and proper work habits should be observed.

===== SECTION VIII - PERSONAL PROTECTION RECOMMENDATIONS =====

**RESPIRATORY PROTECTION:**

Usually not required. However, for confined areas or areas with poor ventilation, use an organic vapors cartridge type respirator.

**VENTILATION:** Mechanically exhaust vapors at point(s) of application. If applicable, maintain airborne contaminant levels of chemicals below their recommended TLV's. (See section II)

**PROTECTIVE GLOVES:** Impervious.

**EYE PROTECTION:** Splash Goggles.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** No Data

**WORK/HYGIENIC PRACTICES:** Wash thoroughly before eating or smoking.

===== SECTION IX - DISCLAIMER =====

It is a violation of federal law to use this product in a manner inconsistent with its labeling. The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

Since the use of this information, these opinions and the conditions of use of the product are not within the control of the Key Polymer Company, it is the user's obligation to determine the conditions of safe use of the product.

.  
TSCA: Unless listed elsewhere in this section, all components of this product are listed on the TSCA Inventory or are exempt.  
.