

Safety Data Sheet



17 Shepard Street • Lawrence, MA 01843 USA +1,978,683,9411

www.keypolymer.com

Issue Date 25-Nov-2014

Revision Date 21-Jul-2015

Version 4

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

Product Identifier

KEY PC2031B/2032B
PC2031B, PC2032B Epoxy B side Tough-Seal 31B, Tough-Seal 32B SE ONLY. oduct for any use other than intended
978-683-9411 (8AM - 5PM EST) (M-F) Chemtrec 1-800-424-9300 (24 Hours) +1 703 527-3887

2. Hazards Identification

Classification

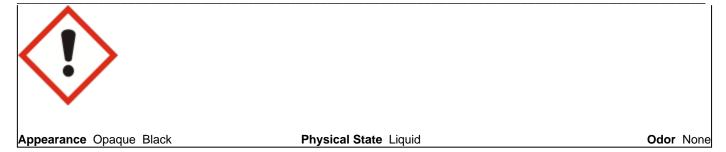
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS). This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 4

EMERGENCY OVERVIEW

WARNING

Hazard Statements Harmful if swallowed Harmful in contact with skin



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear protective gloves, protective clothing, eye protection, face protection

Precautionary Statements - Response

Call a POISON CENTER or doctor/physician if you feel unwell IF ON SKIN: Wash with plenty of soap and water Call a POISON CENTER or doctor/physician if you feel unwell Wash contaminated clothing before reuse IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth

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

Causes mild skin irritation 91% of the mixture consists of ingredient(s) of unknown toxicity

3. Composition/Information on Ingredients

Chemical Family

Epoxy B Side

Chemical Name	CAS No	Weight-%	Trade secret
Proprietary curing agent	Proprietary	5 - 10	*
Carbon Black	1333-86-4	0.5 - 2	*

* 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. Call a physician if irritation persists.
Skin Contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If symptoms persist, call a physician. Wash contaminated clothing before reuse.

Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. Administer oxygen if breathing is difficult. If symptoms persist, call a physician.	
Ingestion	IF SWALLOWED:. Rinse mouth. Do NOT induce vomiting. Call a physician or Poison Control Center immediately.	
Self-Protection of the First Aider	First Aider: Pay attention to self-protection. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.	
Most Important Symptoms and Effects, Both Acute and Delayed		
Symptoms	May cause allergic skin reaction.	
Indication of Any Immediate Medical Attention and Special Treatment Needed		
Note to Physicians	Treat symptomatically.	
5. Fire-Fighting Measures		

Suitable Extinguishing Media

Foam, Dry Chemical, Carbon Dioxide (CO2).

Unsuitable Extinguishing Media Water reactive.

Specific Hazards Arising From the Chemical

Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration. Substance will react with water (some violently) releasing flammable, toxic or corrosive gases and runoff. 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 ImpactNone.Sensitivity to Static DischargeNone.

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	Ensure adequate ventilation, especially in confined areas.
Other Information	Use personal protective equipment as required.
For Emergency Responders	Use personal protective equipment as required.
Environmental Precautions	
Environmental Precautions	Do not allow into any sewer, on the ground or into any body of water. See Section 12 for additional Ecological Information.

Methods and Material for Containment and Cleaning Up

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.	
Incompatible Materials	Acids, Bases, Strong oxidizing agents, Water, Copper, Aluminum, Zinc.	
8. Exposure Controls/Personal Protection		

Control Parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Carbon Black	TWA: 3 mg/m ³ inhalable fraction	TWA: 3.5 mg/m ³	IDLH: 1750 mg/m ³
1333-86-4		(vacated) TWA: 3.5 mg/m ³	TWA: 3.5 mg/m ³
			TWA: 0.1 mg/m ³ Carbon black in
			presence of Polycyclic aromatic
			hydrocarbons PAH

Appropriate Engineering Controls

Engineering Controls	Showers
	Eyewash stations
	Ventilation systems

Individual Protection Measures, Such As Personal Protective Equipment

Eye/Face Protection	Splash Goggles. Avoid contact with eyes.
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

Physical State Appearance Color	Liquid Opaque Black	Odor Odor Threshold	None No information available
<u>Property</u> pH Melting Point/Freezing Point Boiling Point/Boiling Range	<u>Values</u> No information available No information available > 100 °C	<u>Remarks • Method</u>	
Flash Point Evaporation Rate	133 °C No information available	Setaflash Closed Tester	

.

Flammability (Solid, Gas)	No information available
Flammability Limits in Air	
Upper Flammability Limits	No information available
Lower Flammability Limit	No information available
Vapor Pressure	No information available
Vapor Density	No information available
Specific Gravity	1.02
Water Solubility	Slightly soluble
Solubility in Other Solvents	No information available
Partition Coefficient	No information available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Kinematic Viscosity	No information available
Dynamic Viscosity	No information available
Explosive Properties	No information available
Oxidizing Properties	No information available

Other Information

Softening Point Molecular Weight VOC Content (%) Density **Bulk Density**

No information available No information available No information available 8.5 pounds/gallon 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.
Conditions to Avoid
Keep out of reach of children. Avoid moisture. Incompatible Materials.
Incompatible Materials
Acids, Bases, Strong oxidizing agents, Water, Copper, Aluminum, Zinc.
Hazardous Decomposition Products
Carbon oxides, Nitrogen oxides (NOx), Nitric acid, Ammonia, May emit toxic fumes under fire conditions.

11. Toxicological Information

Information on Likely Routes of Exposure

Product Information	The product has not been	The product has not been tested.			
Inhalation	Remove to fresh air. Inhala respiratory system.	Remove to fresh air. Inhalation of vapors in high concentration may cause irritation of respiratory system.			
Eye Contact	Avoid contact with eyes. C	Avoid contact with eyes. Contact with eyes may cause irritation.			
Skin Contact		Avoid contact with skin. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Irritating to skin.			
Ingestion	Do NOT taste or swallow. Not an expected route of exposure. Harmful if swallowed.				
Component Information	Caution - This preparation contains a substance not yet fully tested				
Chemical Name	Oral LD50 (Rat)	Dermal LD50 (Rabbit)	Inhalation LC50		
Proprietary curing agent	= 1000 mg/kg (Rat) = 1280 mg/kg (Rat) -				

Carbon Black	> 15400 mg/kg (Rat)	> 3 g/kg (Rabbit)	-
1333-86-4			

Information on toxicological effects

No information available.

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

Skin corrosion/irritation	
Irritation	
Sensitization	
Germ Cell Mutagenicity	
Carcinogenicity	

Repeated or prolonged contact may cause skin irritation and dermatitis. May cause skin and eye irritation. May cause irritation of respiratory tract. No information available. No information available. Carbon Black (CAS 1333-86-4) poses extremely low respirable carcinogenic risk when encapsulated in a polymeric liquid. If sanding or grinding cured product, wear appropriate

personal protective equipment for respirable dust hazards.				
Chemical Name	ACGIH	IARC	NTP	OSHA
Carbon Black 1333-86-4	A3	Group 2B		Х

ACGIH (American Conference of C	Governmental Industrial Hygienists)
A3 - Animal Carcinogen	
IARC (International Agency for Re	esearch on Cancer)
Group 2B - Possibly Carcinogenic to	Humans
OSHA (Occupational Safety and F	lealth Administration of the US Department of Labor)
X - Present	
Reproductive Toxicity	No information available.
STOT - Single Exposure	No information available.
STOT - Repeated Exposure	No information available.
Aspiration Hazard	No information available.

Numerical Measures of Toxicity - Product Information

Unknown Acute Toxicity The following values are calculated	91% of the mixture consists of ingredient(s) of unknown toxicity based on chapter 3.1 of the GHS document
ATEmix (oral) ATEmix (dermal)	1477 mg/kg 1784 ma/kg
	- 3.3

12. Ecological Information

Ecotoxicity

No information available

99.95% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Carbon Black 1333-86-4				5600: 24 h Daphnia magna mg/L EC50

Persistence and Degradability

No information available

Other Adverse Effects

No information available

Ozone Depletion Potential (ODP) No information available

13. Disposal Considerations

Waste Treatment Methods

Disposal of Wastes

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Do not reuse container.

Contaminated Packaging

14. Transport Information

DOT	Not regulated
Proper Shipping Name	Non-Regulated Adhesive, class 60
ICAO (air)	Not regulated
IATA	Not regulated
IMDG	Not regulated

15. Regulatory Information		
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.	
EINECS	All components are listed or exempted.	
ELINCS	Complies	
IECSC	All components are listed or exempted.	
AICS	All components are listed or exempted.	
Legend:		
TSCA - United States Toxic Substand	es Control Act Section 8(b) Inventory	

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

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

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	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

Chemical Name	California Proposition 65	
Carbon Black - 1333-86-4	Carcinogen	
Methanol - 67-56-1	Developmental	

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Carbon Black	Х	Х	Х
1333-86-4			

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 Issue Date Revision Date	Key Polymer Corp Compliance 25-Nov-2014 21-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