

# **SAFETY DATA SHEET**



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# www.keypolymer.com

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**Revision Number** 16

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

**Product identifier** 

Product Name KEY PC2022A

Other means of identification

Product Code(s)
Product Technology
Document

PC2022A
Epoxy A side
Tough-Seal 22A

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 Holdings, LLC
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) CCN 12410

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).

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Germ cell mutagenicity	Category 2
Reproductive toxicity	Category 1B
Specific target organ toxicity (single exposure)	Category 1 (thymus)
Specific target organ toxicity (repeated exposure)	Category 1 (thymus)

# **Emergency Overview**

DANGER
Hazard statements Harmful if inhaled
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Causes skin irritation

Causes serious eye irritation

May cause an allergic skin reaction

Suspected of causing genetic defects

May damage fertility or the unborn child

Causes damage to organs

(thvmus)

Causes damage to organs through prolonged or repeated exposure

(thymus)



Appearance Opaque White

Physical state Liquid

Odor None

#### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Use only outdoors or in a well-ventilated area

Contaminated work clothing should not be allowed out of the workplace

Do not breathe dust, fumes, or vapors

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**

IF exposed: Call a POISON CENTER or doctor/physician

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

Take off contaminated clothing and wash before reuse

IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

#### **Precautionary Statements - Storage**

Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents & container in accordance with local, state & federal regulations

#### **Hazards Not Otherwise Classified (HNOC)**

#### Other Information

Toxic to aquatic life with long lasting effects

# 3. Composition/Information on Ingredients

Substance

Chemical FamilyEpoxy A SideChemical natureEpoxy resin mixture.

Chemical name	CAS No.	Weight-%	Trade secret
Bisphenol A diglycidyl ether resin	25068-38-6	40 - 70	*
Calcium carbonate	1317-65-3	20 - 30	*
Proprietary epoxy resin	Proprietary	1 - 10	*
Dibutyltin dilaurate	77-58-7	0.999	*
Silicon dioxide	14808-60-7	0.1 - 0.5	*

Calcium carbonate, when encapsulated in a polymer, is not expected to pose a respirable health hazard when processed under normal conditions of use.

## 4. First Aid Measures

#### Description of 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.

**Skin contact** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if

irritation develops and persists.

Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing.

Ingestion Not an expected route of exposure. If swallowed, do not induce vomiting: seek medical

advice immediately and show this container or label.

**Self-protection of the first aider** First Aider: Pay attention to self-protection. Use personal protective equipment as required.

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**

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.

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

#### 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**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 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 Limits**The following ingredients are the only ingredients of the product above the cut-off level (or

level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other

recommended limit. At this time, the other relevant constituents have no known exposure

limits from the sources listed here

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Calcium carbonate	-	TWA: 15 mg/m³ total dust	TWA: 10 mg/m <sup>3</sup> total dust
1317-65-3		TWA: 5 mg/m³ respirable	TWA: 5 mg/m <sup>3</sup> respirable dust
		fraction	
		(vacated) TWA: 15 mg/m³ total	
		dust	
		(vacated) TWA: 5 mg/m <sup>3</sup>	
		respirable fraction	
Dibutyltin dilaurate	STEL: 0.2 mg/m <sup>3</sup> Sn	TWA: 0.1 mg/m <sup>3</sup> Sn	IDLH: 25 mg/m <sup>3</sup> Sn
77-58-7	TWA: 0.1 mg/m <sup>3</sup> Sn	(vacated) TWA: 0.1 mg/m <sup>3</sup> Sn	TWA: 0.1 mg/m <sup>3</sup> except
	S*	(vacated) S*	Cyhexatin Sn
Silicon dioxide	TWA: 0.025 mg/m <sup>3</sup> respirable	TWA: 50 µg/m³	IDLH: 50 mg/m³ respirable dust
14808-60-7	particulate matter	TWA: 50 µg/m³ excludes	TWA: 0.05 mg/m <sup>3</sup> respirable
		construction work, agricultural	dust
		operations, and exposures that	

result from the processing of	
, , ,	
sorptive clays	1
(vacated) TWA: 0.1 mg/m <sup>3</sup>	
respirable dust	
: (250)/(%SiO2 + 5) mppcf	
TWA respirable fraction	
: (10)/(%SiO2 + 2) mg/m <sup>3</sup> TW/	\
respirable fraction	

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

Physical stateLiquidAppearanceOpaqueOdorNoneColorWhiteOdor thresholdN/A

Property Values Remarks • Method

pH N/A
Melting point / freezing point N/A

Boiling point / boiling range > 200 °C

Flash point > 203 °C Setaflash Closed Tester Evaporation rate

N/A

Flammability (solid, gas) Flammability Limit in Air

Upper flammability limit: N/A
Lower flammability limit: N/A
Vapor pressure N/A
Vapor density N/A
Relative density 1.333
Water solubility Negligible
Solubility in other solvents N/A
Partition coefficient N/A
Autoignition temperature N/A

Partition coefficient N/A

Autoignition temperature N/A

Decomposition temperature N/A

Kinematic viscosity N/A

Dynamic viscosity N/A

Explosive properties Not an explosive

Oxidizing properties N/A

**Other Information** 

Softening point N/A
Molecular weight N/A
VOC Content (%) N/A

**Liquid Density** 11.04 pounds/gallon

Bulk density N/A

# 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 (CO2), Aldehydes, Aromatic hydrocarbons, May emit toxic fumes under fire conditions.

## 11. Toxicological Information

#### Information on likely routes of exposure

**Product Information** The product has not been tested

**Inhalation** Remove to fresh air. Harmful by inhalation.

**Eye contact** Vapor may cause irritation. Avoid contact with eyes. Severely irritating to eyes.

**Skin contact** Avoid contact with skin. Irritating to skin. May cause sensitization by skin contact.

Ingestion Not an expected route of exposure. Harmful if swallowed.

Chemical name	ATEmix (oral)	ATEmix (dermal)	Inhalation LC50	
Bisphenol A diglycidyl ether resin 25068-38-6	= 11400 mg/kg (Rat)	-	-	
Proprietary epoxy resin	= 17100 mg/kg(Rat)	> 3987 mg/kg (Rabbit)	-	
Dibutyltin dilaurate 77-58-7	= 45 mg/kg (Rat)	> 2000 mg/kg (Rat)	-	

# Information on toxicological effects

N/A.

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

Skin corrosion/irritation Irritating to skin. Serious eye damage/eye irritation Irritating to eyes.

**Irritation** Irritating to eyes and skin.

**Sensitization** May cause sensitization by skin contact.

**Germ cell mutagenicity** May cause genetic defects.

Carcinogenicity Silicon Dioxide (CAS 14808-60-7) is a naturally occurring substance that poses low

respirable carcinogen risk when encapsulated in a polymeric liquid. If sanding or grinding

\_\_\_\_\_

\_\_\_\_\_\_

finished product, wear appropriate personal protective equipment for respirable dust hazards.

Chemical name	ACGIH	IARC	NTP	OSHA
Silicon dioxide	A2	Group 1	Known	X
14808-60-7				

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

**Reproductive toxicity** May cause harm to the unborn child. May impair fertility.

**STOT - single exposure** May cause disorder and damage to the. thymus.

STOT - repeated exposure Chronic Toxicity Causes damage to organs through prolonged or repeated exposure. thymus. Repeated skin contact may lead to irritation and to sensitization, possible with

cross-sensitization to other epoxies.

Aspiration hazard N/A.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)** 12,204.00 mg/kg mg/l

# 12. Ecological Information

#### **Ecotoxicity**

Toxic to aquatic life with long lasting effects

0.318 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

#### Persistence and degradability

N/A

#### Other adverse effects

N/A

# 13. Disposal Considerations

#### Waste treatment methods

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

regulations.

Contaminated packaging Do not reuse container.

Chemical name	California Hazardous Waste Status	
Dibutyltin dilaurate	Toxic	
77-58-7		

# 14. Transport Information

Note: 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.

**DOT** Not regulated

ICAO (air)

UN/ID no. UN3082

Proper shipping name Environmentally Hazardous Substance N.O.S. (Bisphenol A epoxy resin)

Hazard Class 9
Packing Group III

**IATA** 

UN/ID no. UN3082

Proper shipping name Environmentally Hazardous substance Liquid N.O.S. (Bisphenol A epoxy resin)

Hazard Class 9
Packing Group III

**IMDG** 

UN/ID no. UN3082

Proper shipping name Environmentally Hazardous Substance Liquid N.O.S. (Bisphenol A epoxy resin)

Hazard Class 9
Packing Group

Special Provisions IMDG code 2.9.3

Marine pollutant This product contains a chemical which is listed as a marine pollutant according to

IMDG/IMO

# 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.

**IECSC** All components are listed or exempted.

<u>Legend:</u>

TSCA - United States Toxic Substances 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

#### **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 HazardYesChronic Health HazardYesFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

**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**

Revision Date 26-Sep-2022

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
Silicon dioxide - 14808-60-7	Carcinogen

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Calcium carbonate	X	X	X
1317-65-3			
Silicon dioxide	X	X	X
14808-60-7			

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

#### EPA Pesticide Registration Number Not applicable

#### 16. Other Information

Chronic Hazard Star Legend \*= Chronic Health Hazard

Prepared By Key Polymer Corp Compliance

Issuing Date25-Nov-2014Revision Date26-Sep-2022

**Revision Note** 

N/A

# **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**