

SAFETY DATA SHEET



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www.keypolymer.com

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Revision Number 7

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

Product identifier

Product Name KEY PC2042A

Other means of identification

Product Code(s)
Product Technology
Document

PC2042A
Epoxy A side
Tough-Seal 42A

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
Reproductive toxicity	Category 1B

Emergency Overview

DANGER

Hazard statements

Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
May damage fertility or the unborn child



Appearance Opaque Beige

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

Wash face, hands and any exposed skin thoroughly after handling

Avoid breathing dust, fumes, or vapors

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves, protective clothing, eye protection, face protection

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

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 locked up

Please see Product Information Bulletin (PIB) for shelf life and storage information.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)

Other Information

Toxic to aquatic life with long lasting effects

97.848094% of the mixture consists of ingredient(s) of unknown toxicity

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	50 - 80	*
Proprietary epoxy resin	Proprietary	1 - 10	*
Dibutyltin dilaurate	77-58-7	0.5 - 0.99	*

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

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 physiciansTreat 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.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information. Do not allow into any sewer, on the

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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.

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

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

Keep containers tightly closed in a dry, cool and well-ventilated place. Store and handle **Storage Conditions**

away from heat, flames and oxidizing materials. Please see Product Information Bulletin

(PIB) for shelf life and storage information.

Incompatible materials Strong oxidizing agents. Strong acids. Strong bases.

8. Exposure Controls/Personal Protection

Control parameters

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

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
Dibutyltin dilaurate	STEL: 0.2 mg/m ³ Sn	TWA: 0.1 mg/m ³ Sn	IDLH: 25 mg/m ³ Sn
77-58-7	TWA: 0.1 mg/m ³ Sn	(vacated) TWA: 0.1 mg/m ³ Sn	TWA: 0.1 mg/m³ except
	S*	(vacated) S*	Cyhexatin Sn

Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection Splash Goggles.

Wear protective gloves and protective clothing. Skin and body protection

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.

Handle in accordance with good industrial hygiene and safety practice. General hygiene considerations

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Liquid Physical state **Appearance**

Opaque Odor None Color Beige Odor threshold N/A

Setaflash Closed Tester

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH N/A
Melting point / freezing point N/A
Boiling point / boiling range > 100 °C
Flash point 185 °C

Evaporation rate N/A Flammability (solid, gas) 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 1.52
Water solubility Negligible
Solubility in other solvents N/A
Partition coefficient N/A

Solubility in other solvents

Partition coefficient

Autoignition temperature

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 12.7 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

This product will autopolymerize at very high temperatures.

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. Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

Hazardous decomposition products

Carbon monoxide, Carbon Dioxide (CO2), Formaldehyde, Aldehydes, Phenols, Phosphorous oxides, Nitrogen oxides (NOx), Calcium oxides, Hydrogen chloride, 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.

Eye contact Vapor may cause irritation. Avoid contact with eyes. H319 - Causes serious eye irritation.

Skin contact Avoid contact with skin. Causes skin irritation.

Ingestion Not an expected route of exposure. May be harmful if swallowed.

Chemical name	ATEmix (oral)	ATEmix (dermal)	Inhalation LC50
Bisphenol A diglycidyl ether resin	= 11400 mg/kg (Rat)	-	-
25068-38-6			
Proprietary epoxy resin	= 17100 mg/kg (Rat)	> 3987 mg/kg (Rabbit)	-
Dibutyltin dilaurate	= 45 mg/kg (Rat) = 175 mg/kg (= 630 mg/kg (Rabbit)	-
77-58-7	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 H319 - Causes serious eye irritation.

Irritation Irritating to eyes and skin.

Sensitization May cause sensitization by skin contact.

Germ cell mutagenicity N/A.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

IARC or NTP.

Reproductive toxicity Contains a known or suspected reproductive toxin. May impair fertility. May cause harm to

the unborn child.

STOT - single exposure N/A. STOT - repeated exposure N/A.

Chronic Toxicity 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

Unknown acute toxicity 97.848094% of the mixture consists of ingredient(s) of unknown toxicity

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

ATEmix (oral) 11,951.00 mg/kg **ATEmix (dermal)** 6,726.09 mg/kg mg/l

12. Ecological Information

Ecotoxicity

Toxic to aquatic life with long lasting effects

35.2935 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

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Chemical name	Algae/aquatic plants	Fish	Crustacea	
Dibutyltin dilaurate		2: 48 h Oryzias latipes mg/L LC50		
77-58-7				

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 77-58-7	Toxic

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 Liquid 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 material meets the definition of a marine pollutant

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.

Legend:

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

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

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
Glycidyl phenyl ether - 122-60-1	Carcinogen

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other Information				
NFPA	Health hazards 2	Flammability 1	Instability 0	Physical and chemical

properties
HMIS Health hazards 2* Flammability 1 Physical hazards 0 Personal Protection X

Chronic Hazard Star Legend *= Chronic Health Hazard

Prepared By Key Polymer Corp Compliance

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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