

# **Safety Data Sheet**

Version 6



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## www.keypolymer.com

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

**Product Identifier** 

Product name KEY QP300A

**Other Means of Identification** 

Product Code QP300A Product Technology Epoxy A side

**Document** Key Quick Patch 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
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Lawrence MA 01843 LISA

Lawrence, MA 01843, USA

Company Phone Number 978-683-9411 (8AM - 5PM EST) (M-F) Emergency Telephone Chemtrec 1-800-424-9300 (24 Hours)

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### 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** Paste White

Physical State Paste/Gel

Odor Solvent

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

Obtain special instructions before use

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

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

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

11.24425812% of the mixture consists of ingredient(s) of unknown toxicity

### 3. Composition/Information on Ingredients

Chemical FamilyEpoxy A SideChemical natureEpoxy resin mixture.

Chemical Name	CAS No	Weight-%	Trade secret
Bisphenol A diglycidyl ether resin	25068-38-6	60 - 80	*
Titanium dioxide	13463-67-7	10 - 20	*
Calcium carbonate	1317-65-3	5 - 10	*
2-Butanone	78-93-3	1 - 2	*
1-Methyl-2-pyrrolidinone	872-50-4	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

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

#### **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

eve 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** 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. Halogens. Chlorinated compounds.

### 8. Exposure Controls/Personal Protection

#### **Control Parameters**

**Exposure Guidelines** 

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Titanium dioxide	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m³ total dust	IDLH: 5000 mg/m <sup>3</sup>
13463-67-7		(vacated) TWA: 10 mg/m³ total	_
		dust	
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 fraction	TWA: 5 mg/m <sup>3</sup> respirable dust
		(vacated) TWA: 15 mg/m³ total	
		dust	
		(vacated) TWA: 5 mg/m <sup>3</sup>	
		respirable fraction	
2-Butanone	STEL: 300 ppm	TWA: 200 ppm	IDLH: 3000 ppm
78-93-3	TWA: 200 ppm	TWA: 590 mg/m <sup>3</sup>	TWA: 200 ppm
		(vacated) TWA: 200 ppm	TWA: 590 mg/m <sup>3</sup>
		(vacated) TWA: 590 mg/m <sup>3</sup>	STEL: 300 ppm
		(vacated) STEL: 300 ppm	STEL: 885 mg/m <sup>3</sup>
		(vacated) STEL: 885 mg/m <sup>3</sup>	_

#### **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.

Odor

Setaflash Closed Tester

Solvent

### 9. Physical and Chemical Properties

#### Information on Basic Physical and Chemical Properties

Physical StatePaste/GelAppearancePaste

Color White Odor Threshold No information available

Property Values Remarks • Method

pH No information available
Melting Point/Freezing Point No information available

Boiling Point/Boiling Range > 100 °C Flash Point 84 °C

Evaporation Rate Slower than n-butyl acetate Flammability (Solid, Gas) No information available

Flammability Limits in Air

Upper Flammability Limits
Lower Flammability Limit
Vapor Pressure
Vapor Density

No information available
No information available
Heavier than air

Vapor Density Heavier Specific Gravity 1.225

Water Solubility Immiscible in water 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** 20,000 cps @ 25° C **Explosive Properties** Not an explosive

Oxidizing Properties No information available

**Other Information** 

Softening Point
Molecular Weight
VOC Content (%)
Density
No information available
No information available
No information available
10.2 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.

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. Halogens. Chlorinated compounds.

**Hazardous Decomposition Products** 

Carbon monoxide. Carbon Dioxide (CO2). Aldehydes. Aromatic hydrocarbons. Formaldehyde. Diethylamine. May emit toxic fumes

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under fire conditions.

### 11. Toxicological Information

#### Information on Likely Routes of Exposure

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

No data available. Inhalation

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

**Skin Contact** Avoid contact with skin. Causes skin irritation. Repeated or prolonged skin contact may

cause allergic reactions with susceptible persons.

Not an expected route of exposure. Harmful if swallowed. May cause adverse liver effects. Ingestion

Chemical Name	Oral LD50 (Rat)	Dermal LD50 ( Rabbit)	Inhalation LC50
Bisphenol A diglycidyl ether resin 25068-38-6	= 11400 mg/kg (Rat)	-	-
Titanium dioxide 13463-67-7	> 10000 mg/kg(Rat)	-	-
2-Butanone 78-93-3	= 2483 mg/kg ( Rat ) = 2737 mg/kg ( Rat )	= 6480 mg/kg(Rabbit)= 5000 mg/kg(Rabbit)	= 11700 ppm(Rat)4 h
1-Methyl-2-pyrrolidinone 872-50-4	= 3598 mg/kg (Rat)	= 8 g/kg (Rabbit)	= 3.1 mg/L (Rat) 4 h

#### Information on toxicological effects

No information available.

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

Irritating to eyes.

Serious eye damage/eye irritation

Irritating to eyes, respiratory system and skin. Irritation Sensitization May cause sensitization of susceptible persons. No information available.

**Germ Cell Mutagenicity** 

Skin corrosion/irritation

Carcinogenicity

Titanium Dioxide (CAS 13463-67-7) is a naturally occurring substance that poses very low respirable carcinogen risk when encapsulated in a polymeric liquid. If sanding or grinding finished product, wear appropriate personal protective equipment for respirable dust

Repeated or prolonged contact may cause skin irritation and dermatitis. Irritating to skin.

hazards.

Chemical Name	ACGIH	IARC	NTP	OSHA
Titanium dioxide		Group 2B		X
13463-67-7				

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

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

X - Present

**Reproductive Toxicity** Product is or contains a chemical which is a known or suspected reproductive hazard. May

impair fertility.

No information available. **STOT - Single Exposure** 

**STOT - Repeated Exposure** Pre-existing diseases of the liver may result in increased susceptibility to the toxicity of

excessive exposure.

**Chronic Toxicity** Repeated contact may cause allergic reactions in very susceptible persons.

**Target Organ Effects** Liver.

**Aspiration Hazard** No information available.

### **Numerical Measures of Toxicity - Product Information**

**Unknown Acute Toxicity** 11.24425812% 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)
 10580 mg/kg

 ATEmix (dermal)
 314469 mg/kg

 ATEmix (inhalation-vapor)
 735858 mg/l

### 12. Ecological Information

#### **Ecotoxicity**

No information available

28.2344% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
2-Butanone 78-93-3		3130 - 3320: 96 h Pimephales promelas mg/L LC50 flow-through		520: 48 h Daphnia magna mg/L EC50 5091: 48 h Daphnia magna mg/L EC50 4025 - 6440: 48 h Daphnia magna mg/L EC50 Static
1-Methyl-2-pyrrolidinone 872-50-4	500: 72 h Desmodesmus subspicatus mg/L EC50	832: 96 h Lepomis macrochirus mg/L LC50 static 1072: 96 h Pimephales promelas mg/L LC50 static 1400: 96 h Poecilia reticulata mg/L LC50 static 4000: 96 h Leuciscus idus mg/L LC50 static		4897: 48 h Daphnia magna mg/L EC50

### Persistence and Degradability

No information available

Chemical Name	Partition Coefficient
2-Butanone 78-93-3	0.29
1-Methyl-2-pyrrolidinone 872-50-4	-0.46

### **Other Adverse Effects**

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.

Contaminated Packaging Do not reuse container.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
2-Butanone	U159	Included in waste streams:	200.0 mg/L regulatory level	U159
78-93-3		F005, F039		

# 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

Special Provisions 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** 

UN/ID no UN3082

Proper Shipping Name Environmentally Hazardous substance Liquid N.O.S. (Bisphenol A epoxy resin)

Hazard Class 9
Packing group III

Special Provisions 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** 

UN/ID no UN3082

Proper Shipping Name Environmentally Hazardous Substance Liquid N.O.S. (Bisphenol A epoxy resin)

Hazard Class 9

Packing group III

EmS-No IMDG code 2.9.3

Special Provisions 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

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.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - 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

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
1-Methyl-2-pyrrolidinone - 872-50-4	872-50-4	0.1 - 0.5	1.0

#### SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
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

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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

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
2-Butanone	5000 lb		RQ 5000 lb final RQ
78-93-3			RQ 2270 kg final RQ

### **US State Regulations**

pertaining to releases of this material

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
Titanium dioxide - 13463-67-7	Carcinogen
1-Methyl-2-pyrrolidinone - 872-50-4	Developmental
Silicon dioxide - 14808-60-7	Carcinogen
Glycidyl phenyl ether - 122-60-1	Carcinogen Male Reproductive

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Titanium dioxide 13463-67-7	Χ	X	Х
Calcium carbonate 1317-65-3	Х	X	Х
2-Butanone 78-93-3	X	X	X
1-Methyl-2-pyrrolidinone 872-50-4	X	X	X

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

EPA Pesticide Registration Number Not applicable

16.	Other	In	format	ion

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

Key Polymer Corp Compliance Prepared by

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**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**