

Safety Data Sheet



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www.keypolymer.com

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Version 5

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

Product Identifier

Product name KEY QP300B

Other Means of Identification

Product Code QP300B Product Technology Epoxy B side

Document Key Quick Patch Part B

None

Curing chemical. 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).

Acute toxicity - Oral	Category 4	
Acute toxicity - Dermal	Category 4	
Skin corrosion/irritation	Category 1 Subcategory Sub-category B	
Serious eye damage/eye irritation	Category 1	
Skin sensitization	Category 1	
Reproductive Toxicity	Category 2	

EMERGENCY OVERVIEW

DANGER

Hazard Statements

Causes severe skin burns and eye damage

May cause an allergic skin reaction Suspected of damaging fertility or the unborn child

Harmful if swallowed



Appearance Paste White

Physical State Paste/Gel

Odor Amine

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

Do not eat, drink or smoke when using this product

Do not breathe dust, fumes, or vapors

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

Precautionary Statements - Response

Immediately 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 Immediately call a POISON CENTER or doctor/physician

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

Wash contaminated clothing before reuse

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

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

Immediately call a POISON CENTER or doctor/physician

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

Rinse mouth

Do NOT induce vomiting

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

Very toxic to aquatic life with long lasting effects, Very toxic to aquatic life 19.032% of the mixture consists of ingredient(s) of unknown toxicity

3. Composition/Information on Ingredients

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Chemical Family

Epoxy B Side, Curing Agent

Chemical Name	CAS No	Weight-%	Trade secret
Aliphatic Polyamine	Proprietary	30 - 40	*

Phenol, 4-nonyl-, branched	84852-15-3	20 - 25	*
Titanium dioxide	13463-67-7	20 - 25	*
Diethylenetriamine	111-40-0	1 - 2	*
Aluminium hydroxide	21645-51-2	1 - 5	*

^{*} 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 Carbon oxides; Nitrogen oxides (NOx).

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 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 PrecautionsDo 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.

Incompatible Materials Acids; Bases; Strong oxidizing agents; Water. Reactive metals (e.g. sodium, calcium, zinc,

etc.).

8. Exposure Controls/Personal Protection

Control Parameters

Exposure Guidelines

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Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Titanium dioxide 13463-67-7	TWA: 10 mg/m ³	TWA: 15 mg/m³ total dust (vacated) TWA: 10 mg/m³ total dust	IDLH: 5000 mg/m³
Diethylenetriamine 111-40-0	TWA: 1 ppm S*	(vacated) TWA: 1 ppm (vacated) TWA: 4 mg/m³	TWA: 1 ppm TWA: 4 mg/m³
Aluminium hydroxide 21645-51-2	TWA: 1 mg/m³ 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. 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

Odor

Setaflash Closed Tester

Amine

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 Paste/Gel Appearance Paste

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 > 150 °C **Flash Point** 156 °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

Specific Gravity 1.225 Water Solubility Negligible

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** 18,000 cps @ 25° C **Explosive Properties** Not an explosive No information available **Oxidizing Properties**

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

None under normal processing.

Conditions to Avoid

Keep out of reach of children. Avoid moisture. Incompatible Materials.

Incompatible Materials

Acids; Bases; Strong oxidizing agents; Water. Reactive metals (e.g. sodium, calcium, zinc, etc.).

Hazardous Decomposition Products

Carbon oxides; Nitrogen oxides (NOx). Nitric acid. Ammonia. Sulfur oxides. Hydrogen sulfide. Formaldehyde. 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. May give off gas, vapor or dust that is very irritating or corrosive to the

respiratory system. May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

Eye Contact May cause serious eye damage. Avoid contact with eyes.

Skin Contact Harmful in contact with skin. Contact causes severe skin irritation and possible burns. Avoid

contact with skin. Repeated or prolonged skin contact may cause allergic reactions with

susceptible persons.

Ingestion Not an expected route of exposure. Harmful if swallowed. Can burn mouth, throat, and

stomach. Do NOT taste or swallow.

Component Information Caution - This preparation contains a substance not yet fully tested

Chemical Name	Oral LD50 (Rat)	Dermal LD50 (Rabbit)	Inhalation LC50
Aliphatic Polyamine	= 2140 mg/kg (Rat)	= 880 μL/kg (Rabbit)	-
Phenol, 4-nonyl-, branched 84852-15-3	= 580 mg/kg (Rat)	= 2031 mg/kg (Rabbit)	-
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)	-	-
Diethylenetriamine 111-40-0	= 1080 mg/kg (Rat)	= 672 mg/kg (Rabbit)	= 70 mg/L (Rat) 4 h
Aluminium hydroxide 21645-51-2	> 5000 mg/kg (Rat)	-	-

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 Repeated or prolonged contact may cause skin irritation and dermatitis. Causes burns.

Serious eye damage/eye irritation Risk of serious damage to eyes.

Irritation Causes severe irritation and or burns.

Corrosivity Risk of serious damage to eyes.

Sensitization May cause sensitization by skin contact. Repeated or prolonged contact may cause allergic

reactions in very susceptible persons. No information available.

Germ Cell Mutagenicity

Carcinogenicity Titanium Dioxide (CAS 13463

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

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
STOT - Single Exposure
STOT - Repeated Exposure

Category 2: Substances which should be regarded as if they impair fertility in humans.

May cause disorder and damage to the; Skin, Lungs, Eyes, Central nervous system.

May cause disorder and damage to the; Kidney, Skin.

Skin, Eyes, Blood, Liver, Lungs, Central nervous system.

Aspiration Hazard No information available.

Numerical Measures of Toxicity - Product Information

Unknown Acute Toxicity 19.032% 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) 742 mg/kg ATEmix (dermal) 1897 mg/kg ATEmix (inhalation-dust/mist) 3286 mg/l

12. Ecological Information

Ecotoxicity

No information available

Target Organ Effects

42.511% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Aliphatic Polyamine	495: 72 h Pseudokirchneriella subcapitata mg/L EC50	1950 - 2460: 96 h Pimephales promelas mg/L LC50 flow-through 1000: 96 h Poecilia reticulata mg/L LC50 semi-static 100: 96 h Oncorhynchus mykiss mg/L LC50 semi-static		32: 48 h Daphnia magna mg/L EC50
Phenol, 4-nonyl-, branched 84852-15-3	0.36 - 0.48: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 0.16 - 0.72: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 1.3: 72 h Desmodesmus subspicatus mg/L EC50	0.135: 96 h Pimephales promelas mg/L LC50 flow-through 0.1351: 96 h Lepomis macrochirus mg/L LC50 flow-through		0.14: 48 h Daphnia magna mg/L EC50
Diethylenetriamine 111-40-0	1164: 72 h Pseudokirchneriella subcapitata mg/L EC50 345.6: 96 h Pseudokirchneriella subcapitata mg/L EC50 592: 96 h Desmodesmus subspicatus mg/L EC50	248: 96 h Poecilia reticulata mg/L LC50 static 1014: 96 h Poecilia reticulata mg/L LC50 semi-static 430: 96 h Leuciscus idus mg/L LC50 semi-static		16: 48 h Daphnia magna mg/L EC50 37: 24 h Daphnia magna mg/L EC50

Persistence and Degradability

No information available

Chemical Name	Partition Coefficient
Aliphatic Polyamine	-1.48
Diethylenetriamine 111-40-0	-1.3

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.

Contaminated Packaging Do not reuse container.

14. Transport Information

DOT Not regulated

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.

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 %
Phenol, 4-nonyl-, branched - 84852-15-3	84852-15-3	20 - 25	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 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
Titanium dioxide - 13463-67-7	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Aliphatic Polyamine	X	X	Х
Titanium dioxide 13463-67-7	X	X	X
Diethylenetriamine 111-40-0	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other Information

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

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