

# SAFETY DATA SHEET



17 Shepard Street • Lawrence, MA 01843 USA +1.978.683.9411

Issuing Date 08-May-2015

www.keypolymer.com lay-2015 Revision Date 18-Sep-2023

Revision Number 7

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

KEY QP300B
QP300B
UN1760
Epoxy B side
Key Quick Patch Part B
JSE ONLY.
roduct for any use other than intended
978-683-9411 (8AM - 5PM EST) (M-F)
Chemtrec 1-800-424-9300 (24 Hours) CCN 12410
+1 703 527-3887

# 2. Hazards Identification

## **Classification**

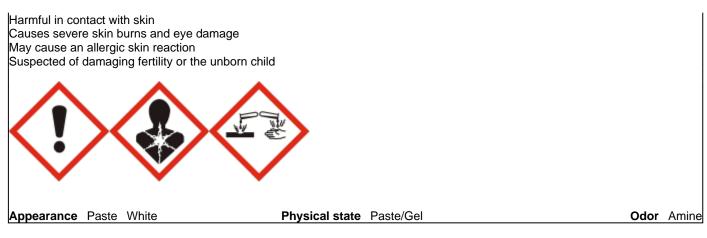
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS). This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

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

# **Emergency Overview**

DANGER

Hazard statements Harmful if swallowed



# **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

## **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)

Not applicable Other Information

Very toxic to aquatic life with long lasting effects, Very toxic to aquatic life

# 3. Composition/Information on Ingredients

#### Substance

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			
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. 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 effe	ects, both acute and delayed		
Symptoms	May cause allergic skin reaction. Burning sensation. Itching. Rashes.		
Indication of any immediate medical attention and special treatment needed			
Note to physicians	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. May cause sensitization in susceptible persons. 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

sure-demand MSHA/NIOSH (approved or equivalent) and full A s in any fire wear self-contained breathing р

	6. Accidental Release Measures
Personal precautions, protective	e equipment and emergency procedures
Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation, especially in confine areas. Use personal protective equipment as required. Attention!. Corrosive material. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
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 contai	nment 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. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment Transfer and handle product only in closed systems. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse.
Conditions for safe storage, incl	luding any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from other materials. Keep out of the reach of children.
Incompatible materials	Acids; Bases; Strong oxidizing agents; Water. Reactive metals (e.g. sodium, calcium, zinc, etc.).
	8. Exposure Controls/Personal Protection

**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
Titanium dioxide	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust	IDLH: 5000 mg/m <sup>3</sup>
13463-67-7		(vacated) TWA: 10 mg/m <sup>3</sup> total	TWA: 2.4 mg/m <sup>3</sup> CIB 63 fine
		dust	TWA: 0.3 mg/m <sup>3</sup> CIB 63 ultrafine,
			including engineered nanoscale
Diethylenetriamine	TWA: 1 ppm	(vacated) TWA: 1 ppm	TWA: 1 ppm
111-40-0	S*	(vacated) TWA: 4 mg/m <sup>3</sup>	TWA: 4 mg/m <sup>3</sup>
Aluminium hydroxide	TWA: 1 mg/m <sup>3</sup> respirable	-	-
21645-51-2	particulate matter		
Appropriate engineering controls			

#### Appropriate engineering controls

Engineering controls	Showers
	Eyewash stations
	Ventilation systems

# Individual protection measures, such as personal protective equipment

Eye/face protection	Tight sealing safety goggles. Face protection shield.
Skin and body protection	Wear protective gloves and protective clothing. Long sleeved clothing. Chemical resistant apron.
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	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Take off all contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands thoroughly after handling.

# 9. Physical and Chemical Properties

## Information on basic physical and chemical properties

Physical state Appearance Color	Paste/Gel Paste White	Odor Odor threshold	Amine N/A
<u>Property</u> pH Melting point / freezing point Boiling point / boiling range	<u>Values</u> N/A N/A > 150 °C	<u>Remarks • Method</u>	
Flash point Evaporation rate Flammability (solid, gas) Flammability Limit in Air	156 °C Slower than n-butyl acetate N/A	Setaflash Closed Tester	
Upper flammability limit: Lower flammability limit: Vapor pressure Vapor density	N/A N/A N/A Heavier than air		
Relative density Water solubility Solubility in other solvents Partition coefficient	1.225 Negligible N/A N/A		

Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties Oxidizing properties Other Information	N/A N/A 18,000 cps @ 25° C Not an explosive N/A
Softening point	N/A
Molecular weight	N/A
VOC Content (%)	N/A
Liquid Density	10.2 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

None under normal processing.

## **Conditions to avoid**

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	Causes serious eye damage. Corrosive to the eyes and may cause severe damage including blindness.			
Skin contact	Corrosive. Causes burns. Harmful in contact with skin. May be absorbed through the skin in harmful amounts. 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	ATEmix (oral)	ATEmix (dermal)	Inhalation LC50	
Aliphatic Polyamine	= 2140 µL/kg (Rat)	= 866 mg/kg (Rabbit)	-	

Phenol, 4-nonyl-, branched 84852-15-3	= 1300 mg/kg (Rat)	= 2000 mg/kg (Rabbit)	-
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)	-	= 5.09 mg/L (Rat)4 h
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

N/A.

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

Skin corrosion/irritation Serious eye damage/eye irritation Irritation Corrosivity Sensitization	Repeated or prolonged contact may cause skin irritation and dermatitis. Causes burns. Risk of serious damage to eyes. Causes severe irritation and or burns. Risk of serious damage to eyes. Causes burns. May cause sensitization by skin contact. Repeated or prolonged contact may cause allergic reactions in very susceptible persons.
Germ cell mutagenicity Carcinogenicity	N/A. 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 bazards

	11020103.			
Chemical name	ACGIH	IARC	NTP	OSHA
Titanium dioxide		Group 2B		Х
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<br/>STOT - single exposure<br/>STOT - repeated exposure<br/>Target organ effectsCategory 2: Substances which should be regarded as if they impair fertility in humans.<br/>May cause disorder and damage to the; Skin, Lungs, Eyes, Central nervous system.<br/>May cause disorder and damage to the; Kidney, Skin.<br/>Skin, Eyes, Blood, Liver, Lungs, Central nervous system.<br/>N/A.

#### Numerical measures of toxicity - Product Information

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

ATEmix (oral)	928.40 mg/kg
ATEmix (dermal)	1,358.00 mg/kg
ATEmix (inhalation-dust/mist)	98.80 mg/l

# **12. Ecological Information**

# 4-Nonylphenol, branched.

## **Ecotoxicity**

Very toxic to aquatic life with long lasting effects

Chemical name	Algae/aquatic plants	Fish	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	0.16 - 0.72: 72 h Pseudokirchneriella	0.135: 96 h Pimephales promelas	0.14: 48 h Daphnia magna mg/L
84852-15-3	subcapitata mg/L EC50 static	mg/L LC50 flow-through	EC50
	0.36 - 0.48: 96 h Pseudokirchneriella	0.1351: 96 h Lepomis macrochirus	
	subcapitata mg/L EC50 static	mg/L LC50 flow-through	
	1.3: 72 h Desmodesmus subspicatus		
	mg/L EC50		
Diethylenetriamine	1164: 72 h Pseudokirchneriella	1014: 96 h Poecilia reticulata mg/L	16: 48 h Daphnia magna mg/L EC50
111-40-0	subcapitata mg/L EC50	LC50 semi-static	
	345.6: 96 h Pseudokirchneriella	248: 96 h Poecilia reticulata mg/L	
	subcapitata mg/L EC50	LC50 static	
	592: 96 h Desmodesmus		
	subspicatus mg/L EC50		

# Persistence and degradability

N/A

Chemical name	Partition coefficient
Aliphatic Polyamine	-1.48
Diethylenetriamine	-1.3
111-40-0	

Other adverse effects

N/A

Ozone depletion potential (ODP) 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.
US EPA Waste Number	D002, U122 D001, U019

Chemical name	California Hazardous Waste Status
Diethylenetriamine 111-40-0	Тохіс
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# 14. Transport Information

DOT UN/ID no. Proper shipping name Hazard Class Packing Group Special Provisions Marine pollutant Description Emergency Response Guide Number	UN1760 CORROSIVE LIQUIDS, N.O.S. 8 III IB3, T7, TP1, TP28 4-Nonylphenol, branched. UN1760 CORROSIVE LIQUIDS, N.O.S., (Aliphatic Polyamine, 4-Nonylphenol, branched),8, III 154
<u>ICAO (air)</u> UN/ID no. Proper shipping name Hazard Class	UN1760 Corrosive liquid, n.o.s. 8

Packing Group	III
Special Provisions	A3
Description	UN1760, Corrosive liquid, n.o.s. (Aliphatic Polyamine, 4-Nonylphenol, branched),8, III
IATA UN/ID no. Proper shipping name Hazard Class Packing Group ERG Code Special Provisions Description	UN1760 Corrosive liquid, n.o.s. 8 III 8L A3, A803 UN1760 Corrosive liquid, n.o.s. (Aliphatic Polyamine, 4-Nonylphenol, branched), 8, III
IMDG	UN1760
UN/ID no.	CORROSIVE LIQUID, N.O.S.
Proper shipping name	8
Hazard Class	III
Packing Group	F-A, S-B
EmS-No.	223, 274
Special Provisions	4-Nonylphenol, branched
Marine pollutant	UN1760 CORROSIVE LIQUID, N.O.S. (Aliphatic Polyamine, 4-Nonylphenol, branched), 8,
Description	III, Marine pollutant

# 15. Regulatory Information

## International Inventories

# 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	Х	Х	Х
Titanium dioxide 13463-67-7	Х	Х	Х
Diethylenetriamine 111-40-0	X	X	Х

## U.S. EPA Label Information

#### EPA Pesticide Registration Number Not applicable

#### 16. Other Information

Chronic Hazard Star Legend

\* = Chronic Health Hazard

Prepared By Issuing Date Revision Date Key Polymer Corp Compliance 08-May-2015 18-Sep-2023

**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**