

SAFETY DATA SHEET
510 Epoxy Binder Hardener- Part B

1. Product and Company Identification

Product Code:	510-RCB	
Product Name:	510 Epoxy Binder Hardener- Part B	
Company Name:	Key Resin Company	Phone Number:
	4050 Clough Woods Dr.	+1 (513)943-4225
	Batavia, OH 45103	
Emergency Contact:	Chemtrec (USA)	(800)424-9300
	Chemtrec (International)	+1 (703)527-3887
Intended Use:	Industrial floor coatings.	

2. Hazards Identification

Skin Corrosion/Irritation, Category 1A
Serious Eye Damage/Eye Irritation, Category 1
Acute Toxicity: Skin, Category 4
Acute Toxicity: Inhalation, Category 4
Acute Toxicity: Oral, Category 4



Danger



Warning

GHS Hazard Phrases: H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage.
H332 - Harmful if inhaled.
H302 - Harmful if swallowed.

GHS Precaution Phrases: P262 - Do not get in eyes, on skin, or on clothing.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P273 - Avoid release to the environment.

GHS Response Phrases: P302+350 - IF ON SKIN: Gently wash with plenty of soap and water. P361 - Remove/Take off immediately all contaminated clothing. P363 - Wash contaminated clothing before reuse.
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P311 - Call a POISON CENTER or doctor/physician.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P313 - Get medical advice/attention.

GHS Storage and Disposal Phrases: P404 - Store in a closed container. P501 - Dispose of contents/container to local, state, and federal authority requirements.

OSHA Regulatory Status: This material is classified as hazardous under OSHA regulations.

Potential Health Effects (Acute and Chronic): Corrosive to the eyes and may cause severe damage including blindness. Contact causes severe skin irritation and possible burns.

Inhalation: Vapors are extremely irritating and corrosive. Irritating to the nose, throat and respiratory tract.

Skin Contact: Harmful in contact with skin. Can cause chemical burn.

Eye Contact: Corrosive/irritation to eyes. Causes eye burns.

Ingestion: Harmful if swallowed. This product may produce corrosive damage to the gastrointestinal tract if it is swallowed. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract.

SAFETY DATA SHEET

510 Epoxy Binder Hardener- Part B

Page: 2

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Supersedes Revision: 06/06/2018

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration	
9046-10-0	*Poly(oxy(methyl-1,2-ethanediyl)	50 - 70 %	
15520-10-2	1,5-Pentanediamine, 2-methyl-	15 - 25 %	
25068-38-6	Bisphenol-a based epoxy resin	<10 %	

4. First Aid Measures

Emergency and First Aid

Procedures:

- In Case of Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If experiencing respiratory symptoms: Get medical attention immediately.
- In Case of Skin Contact:** In case of contact, immediately wash skin with soap and copious amounts of water. Remove contaminated clothing and shoes. Get medical attention if irritation develops or persists.
- In Case of Eye Contact:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Get medical attention immediately.
- In Case of Ingestion:** If swallowed, wash out mouth with water provided person is conscious. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Get medical attention immediately.

- Signs and Symptoms Of Exposure:**
- Eyes: Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
- Skin: Can cause severe skin burns. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
- Inhalation: Vapors are irritating to the respiratory system, may cause throat pain and cough.

5. Fire Fighting Measures

- Flash Pt:** > 200.00 F (93.3 C) Method Used: Pensky-Marten Closed Cup
- Explosive Limits:** LEL: NE UEL: NE
- Autoignition Pt:** No data.
- Suitable Extinguishing Media:** Dry chemical, CO2, water spray or regular foam.
- Unsuitable Extinguishing Media:** Do not use a direct water stream, which may spread fire.
- Fire Fighting Instructions:** Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
- Flammable Properties and Hazards:** Combustible material: may burn but does not ignite readily.

SAFETY DATA SHEET

510 Epoxy Binder Hardener- Part B

6. Accidental Release Measures

Protective Precautions, Protective Equipment and Emergency Procedures: Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves. Where splashing is possible, full chemically resistant protective clothing, and boots are required.

Environmental Precautions: Prevent entry into waterways, sewers, basements or confined areas.

Steps To Be Taken In Case Material Is Released Or Spilled: PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL.
Absorb with sand or vermiculite and place in closed containers for disposal. Ventilate the area.

7. Handling and Storage

Precautions To Be Taken in Handling: Provide adequate ventilation. Do not breathe vapor. Do not get in eyes, on skin or on clothing.

Precautions To Be Taken in Storing: Store away from: Acids, Oxidizers, ketones.

Other Precautions: Wash thoroughly after handling.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
9046-10-0	*Poly(oxy(methyl-1,2-ethanediyl))	No data.	No data.	No data.
15520-10-2	1,5-Pentanediamine, 2-methyl-	No data.	No data.	No data.
25068-38-6	Bisphenol-a based epoxy resin	No data.	No data.	No data.

Respiratory Equipment (Specify Type): Use local exhaust ventilation to maintain airborne concentrations below the TLV, or if values are unknown. Suitable respiratory equipment should be used in cases of insufficient ventilation or where operational procedures demand it. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Eye Protection: Safety glasses, or goggles.

Protective Gloves: Chemical resistant gloves.

Other Protective Clothing: Impervious clothing. Where splashing is possible, full chemically resistant protective clothing, safety glasses or face shield and boots are required.

Engineering Controls (Ventilation etc.): Good general ventilation should be sufficient to control airborne levels. Safety shower and eye bath.

Work/Hygienic/Maintenance Practices: Wash contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling.

Environmental Exposure Controls: Avoid runoff into storm sewers and ditches which lead to waterways.

SAFETY DATA SHEET
510 Epoxy Binder Hardener- Part B

9. Physical and Chemical Properties

Physical States: [] Gas [X] Liquid [] Solid
Appearance and Odor: Odor: ammonia-like. Appearance: Liquid. Yellowish.
Melting Point: NE
Boiling Point: NE
Decomposition Temperature: NE
Autoignition Pt: No data.
Flash Pt: > 200.00 F (93.3 C) Method Used: Pensky-Marten Closed Cup
Explosive Limits: LEL: NE UEL: NE
Specific Gravity (Water = 1): ~ .9364
Density: ~ 7.81 LB/GL
Vapor Pressure (vs. Air or mm Hg): NE
Vapor Density (vs. Air = 1): NE
Evaporation Rate: NE
Solubility in Water: NE
Saturated Vapor Concentration: NE
Percent Volatile: N.D.
VOC / Volume: NE

10. Stability and Reactivity

Reactivity: Avoid: acids, alkalis, oxidizing agents.
Stability: Unstable [] Stable [X]
Conditions To Avoid - Instability: Extreme temperatures.
Incompatibility - Materials To Avoid: Strong oxidizing agents, acids, ketones.
Avoid:
Hazardous Decomposition Or Byproducts: Fire may produce irritating, corrosive and/or toxic gases.
Hazardous decomposition products formed under fire conditions.
Carbon monoxide, Carbon dioxide, Nitrogen oxides.
Possibility of Hazardous Polymerization: Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions: Will not undergo hazardous polymerization in normal storage conditions.

SAFETY DATA SHEET
510 Epoxy Binder Hardener- Part B

11. Toxicological Information

Toxicological Information: May cause sensitization by skin contact.

Irritation or Corrosion: Corrosive! Damages skin and eyes.

Symptoms related to Toxicological Characteristics: Skin: Contact with substance may cause severe burns to skin. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
Eyes: Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Permanent eye damage including blindness could result.
Inhalation: Inhalation of vapors/fumes causes respiratory irritation with throat discomfort, coughing or difficulty breathing.

Chronic Toxicological Effects: Skin sensitization.

12. Ecological Information

General Ecological Information: Avoid release to the environment. Do not empty into drains. May be hazardous to the environment if released in large quantities.

Results of PBT and vPvB assessment: No data available.

Persistence and Degradability: Not readily biodegradable.

Bioaccumulative Potential: No data available.

Mobility in Soil: not reported, unknown.

13. Disposal Considerations

Waste Disposal Method: Incinerate or dispose of unused material, residues and containers in a licensed facility in accordance with all applicable local, state and federal regulations. Do not discharge substance/product into sewage system.

14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: CAUSTIC ALKALI LIQUID, N.O.S. (Contains Aliphatic Amine)
DOT Hazard Class: 8 CORROSIVE
UN/NA Number: UN1719 **Packing Group:** III
Precautionary Label: Corrosive! Damages skin and eyes. Vapors may be harmful to the respiratory tract. May be harmful if swallowed.



MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: CAUSTIC ALKALI LIQUID, N.O.S. (Contains Aliphatic Amine)
UN Number: 1719 **Packing Group:** III
Hazard Class: 8 - CORROSIVE
IMDG EMS Number: FA,SB **IMDG MFAG Number:**
IMDG EMS Page: No

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: CAUSTIC ALKALI LIQUID, N.O.S. (Contains Aliphatic Amine)

SAFETY DATA SHEET

510 Epoxy Binder Hardener- Part B

15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
9046-10-0	*Poly(oxy(methyl-1,2-ethanediyl)	No	No	No
15520-10-2	1,5-Pentanediamine, 2-methyl-	No	No	No
25068-38-6	Bisphenol-a based epoxy resin	No	No	No

This material meets the EPA Yes No Acute (immediate) Health Hazard
'Hazard Categories' defined Yes No Chronic (delayed) Health Hazard
for SARA Title III Sections Yes No Fire Hazard
311/312 as indicated: Yes No Sudden Release of Pressure Hazard
 Yes No Reactive Hazard

Regulatory Information: TSCA (Toxic Substance Control Act): All components are listed or exempt.

16. Other Information

Revision Date: 06/10/2019

Hazard Rating System:

HEALTH	3
FLAMMABILITY	1
PHYSICAL	0
PPE	X

HMIS:

Additional Information About This Product: CA=CIRCA NA=NOT AVAILABLE NE=NOT ESTABLISHED NR=NOT REGULATED
 NP= NOT APPLICABLE PR=PROPRIETARY TS=TRADE SECRET ?=UNKNOWN.

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