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**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

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**IDENTITY:**            *Product Name:* EPOXY-Gel COMPONENT A

*Product Use Description:* Epoxy Resin Adhesive, For Further Information, Refer to the Product Technical Data Sheet

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**SECTION 2: HAZARDS IDENTIFICATION**

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**GHS Hazard:**



**ROUTES OF ENTRY:**            **EYE:** YES            **SKIN:** YES            **INGESTION:** YES            **INHALATION:** YES

**SIGNAL WORD:**    **DANGER!**

**PHYSICAL HAZARDS:** Not Classified

**HEALTH HAZARDS: (ACUTE AND CHRONIC)**

**EYES:**                    Serious Eye Damage/Irritant Cat. 1

**SKIN:**                    Skin Irritant Cat. 2

                              Skin Sensitization Cat. 1

**INGESTION:**            Genetic Mutagenicity Cat. 2

**INHALATION:**            Genetic Mutagenicity Cat. 2

**CARCINOGEN:**        IARC Cat. 2B

**ENVIRONMENTAL HAZARDS:**

                              Acute Aquatic Cat.2

                              Chronic Aquatic Cat.2

**HAZARD STATEMENTS:**    H315 - Causes skin irritation  
                                      H317 - May cause an allergic skin reaction  
                                      H319 - Causes serious eye irritation  
                                      H318 - Causes serious eye damage  
                                      H411 - Toxic to aquatic life with long lasting effects  
                                      H341 - Suspected of causing genetic defects

**PRECAUTIONARY STATEMENTS:**

P261 – Avoid breathing mist/vapors/spray.

P262 - Do not get in eyes, on skin, or on clothing

P264 - Wash...thoroughly after handling with soap and water.

P272 – Contaminated work clothing should not be allowed out of the workplace.

P273 - Avoid release to the environment

P280 - Wear Protective gloves/protective clothing/eye protection/face protection.

P302+P352 – IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER and DOCTOR.

P333+P313 – If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362 – Take off contaminated clothing and wash before reuse.

P391 – Collect spillage.

P402 – Store locked up.

P501 – Dispose of contents/container through a waste management company authorized by the local government.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:**

Persons with preexisting skin or respiratory disorders may have their conditions aggravated by over exposure to this material.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

HAZARDOUS COMPONENTS	CAS #:	CAL-OSHA PEL TWA (8hours)	ACGIH TLV TWA (8 hours)	Other Limits RECOMMENDED	% BY WEIGHT
Bisphenol-A - epichlorohydrin epoxy resin	25068-38-6	No Data	No Data		60-80
2,3-epoxypropyl o-tolyl ether	2210-79-9	No Data	No Data		8-10
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	2530-83-8	No Data	No Data		<1
Titanium Dioxide	13463-67-7	15mg/m3	10 mg/m3		9
Silicones and siloxanes, dimethyl-, reaction products with silica	67762-90-7	No Data	No Data		6

**SECTION 4: FIRST AID MEASURES**

**EYES:** Immediately flush eyes with water for a minimum of 15 minutes while holding eyes open. Remove contact lenses if present and easy to do. If redness, burning, blurred vision, or swelling persists, consult a physician.

**SKIN:** Remove contaminated clothing and product. Immediately wash affected area with soap and water. Do not apply greases or ointments. If skin irritation persists, consult a physician.

**INGESTION:** Rinse mouth immediately. Give small amounts of water, only if person is conscious. Only induce vomiting at the instruction of medical personnel. consult a physician

**INHALATION:** Remove patient to fresh air. Give oxygen or artificial respiration if needed. If patient continues to experience difficulty breathing, consult a physician.

**SECTION 5: FIRE-FIGHTING MEASURES**

**SUITABLE EXTINGUISHING MEDIA:** Extinguish with foam, carbon dioxide, dry powder, or water fog.

**SPECIAL FIRE FIGHTING PROCEDURES:** Use standard fire-fighting procedures, and consider the hazards of other involved materials. In case of a fire and / or explosion do not breathe fumes. Self-contained breathing apparatus and full protective clothing must be worn. Move containers from fire area if you can do so without risk. Cool containers with flooding quantities of water until well after fire is out. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Hazardous decomposition products may occur when material polymerizes at temperatures above 500 °F (260 °C). Irritating and toxic gases/fumes may be released during a fire. Do not allow run-off from fire-fighting to enter drains or water courses.

**FLASH POINT:** >250 °F / 121 °C

**METHOD USED:** PMCC

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**PERSONAL PROTECTION:** Keep unnecessary personnel away. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate personal protective equipment. Do not touch containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors or mists. Ensure adequate ventilation. Local authorities should be advised if significant spillage cannot be contained.

**ACCIDENTAL RELEASE MEASURES:** In case of spill, clean up using absorbent material such as earth or sand. Small quantities can be wiped up with cloth, place cloth in leak proof container and dispose of properly.

**WASTE DISPOSAL:** Observe Federal, State and local regulations covering chemical waste spills.

**SECTION 7: HANDLING AND STORAGE**

**PERSONAL PROTECTION:** Use personal protective equipment to ensure product does not contact eyes or skin when handling materials.

**HANDLING AND STORAGE:** Store in cool dry place out of direct sun rays. Keep from freezing. Recommend storage temperatures range: between 40° and 95 °F (4° - 35 °C)

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**PROTECTIVE MEASURE:** Wear appropriate personal protective equipment.

**EYE PROTECTION:** Wear appropriate safety glasses with side shields, goggles or full face shield. When working on an overhead application a full face shield is recommended.

**HAND PROTECTION:** Wear chemical-resistant gloves such as: Nitrile, neoprene, butyl.

**SKIN AND BODY PROTECTION:** Wear long sleeve shirts/long pants and other clothing as required to minimize contact.

**RESPIRATORY PROTECTION:** Do not breathe gas/fumes/vapor/ or spray. The use of a respirator is not required during general use of this product provided adequate ventilation. If grinding or cutting cured product the use of an approved respirator is recommended.

**WORK HYGIENIC PRACTICES:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**ENGINEERING CONTROLS:** When using indoors, good ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Ready access to running water is required. Provide eyewash station.

**EXPOSURE LIMITS**

Component	OSHA (PEL)	ACGIH (TLV)	NIOSH (Pocket Guide)
Bisphenol-A - epichlorohydrin epoxy resin 25068-38-6	No Data	No Data	No Data
2,3-epoxypropyl o-tolyl ether 2210-79-9	No Data	No Data	No Data
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane 2530-83-8	No Data	No Data	No Data
Titanium Dioxide 13463-67-7	TWA 15 mg/m3	No Data	No Data
Silicones and siloxanes, dimethyl-, reaction products with silica 67762-90-7	TWA 80 mg/m3	No Data	6 mg/m3

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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**APPEARANCE:** White

**ODOR:** Mild

**PHYSICAL STATE:** Paste

**pH AS SUPPLIED:** N/D

**BOILING POINT:** >250F

**MELTING POINT:** N/D

**FREEZING POINT:** N/D

**VAPOR PRESSURE (mmHg):** N/D

**VAPOR DENSITY (AIR = 1):** Heavier than air

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** 1.3 @ 25°C

**EVAPORATION RATE:** Negligible

**SOLUBILITY IN WATER:** Negligible

**PERCENT SOLIDS BY WEIGHT:** 0%

**PERCENT VOLATILE:** Negligible

**VOLATILE ORGANIC COMPOUNDS (VOC):** ND

**MOLECULAR WEIGHT:** ND

**VISCOSITY:** 2100 poise

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**SECTION 10: STABILITY AND REACTIVITY**

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**STABILITY:** Stable

**CONDITIONS TO AVOID (STABILITY):** Exposure to excessive heat and open flame

**INCOMPATIBILITY (MATERIAL TO AVOID):** Strong acids, peroxides and other oxidizing agents.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Normal combustion forms carbon dioxide, carbon monoxide, oxides of carbon and other organic compounds,

**HAZARDOUS POLYMERIZATION:** Will not occur

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**SECTION 11: TOXICOLOGICAL INFORMATION**

	<b>CAS#</b>	
Acute Oral Toxicity:		No data available on the product itself
Oral-Components		
Bisphenol-A - epichlorohydrin epoxy resin	25068-38-6	LD50 >5,000 mg/kg Species: Rat
2,3-epoxypropyl o-tolyl ether	2210-79-9	LD50 5,800 mg/kg Species: Rat
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	2530-83-8	LD50 7,000-17,000 mg/kg Species: Rat
Silicones and siloxanes, dimethyl-, reaction products with silica	67762-90-7	LD50 >5,000 mg/kg Species: Rat
Acute Dermal Toxicity:		No data available on the product itself
Dermal-Components		
Bisphenol-A - epichlorohydrin epoxy resin	25068-38-6	LD50 20,000 mg/kg Species: Rabbit
2,3-epoxypropyl o-tolyl ether	2210-79-9	LD50 >2,000 mg/kg Species: Rabbit
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	2530-83-8	LD50 3.97 ml/kg Species: Rabbit
Silicones and siloxanes, dimethyl-, reaction products with silica	67762-90-7	LD50 >2,000 mg/kg Species: Rat
Acute Inhalation Toxicity:		No data available on the product itself
Inhalation-Components		
2,3-epoxypropyl o-tolyl ether	2210-79-9	LC50(4hr): 1220 ppm Species: Rat
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	2530-83-8	LC50 3.97 ml/kg Species: Rabbit
Silicones and siloxanes, dimethyl-, reaction products with silica	67762-90-7	LC0(4hr) 0.139 mg/l Species: Rat
Skin Corrosion/ Irritation:		No data available on the product itself
Corrosion/Irritation Components		
2,3-epoxypropyl o-tolyl ether	2210-79-9	Severe skin irritation.
Bisphenol-A - epichlorohydrin epoxy resin	25068-38-6	Causes slight irritation.
Eye Damage/Irritation:		No data available on the product itself
Damage/Irritation Components		
Bisphenol-A - epichlorohydrin epoxy resin	25068-38-6	Causes serious eye damage.
2,3-epoxypropyl o-tolyl ether	2210-79-9	Mild eye irritation.
Respiratory Damage/Irritation:		No data available on the product itself
Damage/Irritation Components		
Sensitization:		May cause sensitization by inhalation and skin contact.
Sensitization-Components		
2,3-epoxypropyl o-tolyl ether	2210-79-9	May cause sensitization by skin contact.
Germ Cell Mutagenicity		The product or a component may be mutagenic, the data is inconclusive.
Maternal Toxicity:		No data available on the product itself

**Carcinogenicity:**

**ACGIH:** No data

**IARC:** TiO<sub>2</sub>: IARC Group 2B carcinogen "possibly carcinogen to humans".  
This product contains titanium dioxide which IARC has classified as a Group 2B carcinogen (possible carcinogenic to humans). Evidence is based on sufficient animal testing as a result of long-term inhalation at high concentrations of respirable amounts of titanium dioxide. Because this product is in liquid or paste form. It does not pose a dust hazard; therefore, **this classification is not relevant**. Note: sanding of this product will create a possible dust hazard.

**NTP** No data

**OSHA** No data

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**SECTION 12: ECOLOGICAL INFORMATION**

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<b>ECOTOXICITY:</b>	<b>CAS#</b>	
Aquatic toxicity:		No data on product itself
Toxicity to Fish-Components		
Bisphenol-A - epichlorohydrin epoxy resin	25068-38-6	LC50(96hr) 1.5mg/l Species: Salo Gairdneri
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	2530-83-8	LC50(96hr) 55mg/l Species: Cyprinus carpio
Silicones and siloxanes, dimethyl-, reaction products with silica	67762-90-7	LC50(96hr) 10,000 mg/l Species: Brachydanio rerio
Toxicity to algae-Components		
Toxicity-Aquatic Invertebrates		
Bisphenol-A - epichlorohydrin epoxy resin	25068-38-6	EC50(48hr) 2.7mg/l Species: Daphnia Magna
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	2530-83-8	LC50(48hr) 324mg/l Species: Simocephalus vetulus
Silicones and siloxanes, dimethyl-, reaction products with silica	67762-90-7	EC50(24hr) >1,000 mg/l Species: Daphnia magna
Toxicity to other organisms:		
 <b>PERSISTENCE &amp; DEGRADABILITY:</b>		
<b>BIODEGRADABILITY:</b>		
Biodegradability-Components		
Bisphenol-A - epichlorohydrin epoxy resin	25068-38-6	Not readily biodegradable 5% 28 days
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	2530-83-8	Not readily biodegradable
<b>BIOACCUMULATIVE POTENTIAL:</b>		
BioAccumulative-Components:		
Bisphenol-A - epichlorohydrin epoxy resin	25068-38-6	Low potential to bioaccumulate BCF = 31
<b>MOBILITY IN SOIL:</b>		
NDA		
<b>OTHER ADVERSE EFFECTS:</b>		
NDA		
<b>AQUATIC RELEASE:</b>		
Advise authorities if product has entered or may enter watercourses or sewer drains.		

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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**WASTE DISPOSAL METHOD:** Do not allow this material to drain into sewers / waterways, ditches, containment pools or water supplies. Dispose of contents / containers in accordance with local/regional/international regulations.

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**SECTION 14: TRANSPORT INFORMATION**

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**U.S. DEPARTMENT OF TRANSPORTATION**

**PROPER SHIPPING NAME:**  
**HAZARD CLASS:**  
**ID NUMBER:** Not Regulated for transportation  
**PACKING GROUP:**

**WATER TRANSPORTATION**

**PROPER SHIPPING NAME:** Environmentally hazardous substance, liquid n.o.s. (Epoxy Resin Mixture), Marine Pollutant  
**HAZARD CLASS:** 9  
**ID NUMBER:** UN3082  
**PACKING GROUP:** III

**AIR TRANSPORTATION**

**PROPER SHIPPING NAME:** Environmentally hazardous substance, liquid n.o.s. (Epoxy Resin Mixture), Marine Pollutant  
**HAZARD CLASS:** 9  
**ID NUMBER:** UN3082  
**PACKING GROUP:** III

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**SECTION 15: REGULATORY INFORMATION**

**U.S. FEDERAL REGULATIONS**

**TSCA (TOXIC SUBSTANCE CONTROL ACT):**

**CERCLA (COMPREHENSIVE RESPONSE  
 COMPENSATION, AND LIABILITY ACT):** xxxxxxxxxx

**OSHA:** 29 CFR 1910.1200 (Hazard Communication required)

**WHMIS** XXXXXXXXXXXX

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):**

**302/304** XXX

**311/312 HAZARD CATEGORIES:**

Acute Health Hazard:	Yes
Chronic Health Hazard:	Yes
Fire Hazard:	No
Pressure Release Hazard:	No
Reactivity Hazard:	No

**313 REPORTABLE INGREDIENTS:** Xxxxxxxx

**STATE REGULATIONS:**

**CALIFORNIA PROPOSITION 65 (THE SAFE DRINKING WATER AND TOXICS ENFORCEMENT ACT of 1986)**

This product does not contain known levels of any chemicals known to cause cancer or reproductive harm.

**SECTION 16: OTHER INFORMATION**

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM	
HMIS HAZARD RATING	
HEALTH	2
FLAMMABILITY	1
REACTIVITY	1
PERSONAL PROTECTION	C
4 – Severe, 3 – Serious, 2 – Moderate, 1 - Slight	
C – (Safety glasses, gloves, apron)	

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