



# Epoxy-Colorant

Pigmented Epoxy  
100% Solids

SAFETY DATA SHEET

## **SECTION 1. IDENTIFICATION**

Product Name: 100% SOLIDS EPOXY w/ Colorant

Product Code: Epoxy-LightGrey, Epoxy-MediumGrey, Epoxy-DarkGrey, Epoxy-Brown, Epoxy-Tan, Epoxy-Black, Epoxy-White

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## **SECTION 2. HAZARDS IDENTIFICATION**

GLOBALLY HARMONIZED SYSTEM (GHS)

CLASSIFICATION: HAZARDOUS

SKIN IRRITATION: CATEGORY 2

EYE IRRITATION: CATEGORY 2A

SKIN SENSITIZATION: SUB-CATEGORY 1B

ACUTE AQUATIC TOXICITY: CATEGORY 2

CHRONIC AQUATIC TOXICITY: CATEGORY 2

GHS LABEL ELEMENTS

HAZARD PICTOGRAMS



GHS07 Harmful



GHS09 Environmental Hazard

**SIGNAL WORD:** WARNING!

**HAZARD STATEMENTS**

H315+H320: CAN CAUSE EYE AND SKIN IRRITATION AND SENSITIZATION

H317: MAY CAUSE ALLERGIC SKIN REACTION

H335: MAY CAUSE RESPIRATORY TRACT IRRITATION

H411: TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

**PRECAUTIONARY STATEMENTS:**

**PREVENTION**

P261: AVOID BREATHING DUST/FUME/GAS/MIST/VAPORS/SPRAY

P264: WASH SKIN THOROUGHLY AFTER HANDLING

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

**RESPONSE**

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 SO. CONTINUE RINSING.

P333+P313: IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION

P337+P313: IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/ATTENTION

P361+P364: TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE REUSE

P391: COLLECT SPILLAGE

**DISPOSAL**

P501: DISPOSE OF CONTENTS/CONTAINER TO AN APPROVED WASTE DISPOSAL PLANT

OTHER HAZARDS

NO DATA AVAILABLE

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

<b>HAZARDOUS INGREDIENTS</b>	<b>Wt. %</b>	<b>CAS Number</b>
4,4'-ISOPROPYLDIPHENOL-EPICHLOROHYDRIN COPOLYMER	60-100	025068-38-6
O-CRESYL GLYCIDYLETHER	1-5	002210-79-9

**SECTION 4. FIRST AID MEASURES**

GENERAL: REMOVE PERSON FROM AFFECTED AREA AND MAKE COMFORTABLE. TREAT SYMPTOMATICALLY.

EYES: FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION.

SKIN: REMOVE PRODUCT AND FLUSH AFFECTED AREA WITH WATER FOR 15 MINUTES. IF IRRITATION PERSISTS GET MEDICAL ATTENTION.

INHALATION: MOVE TO FRESH AIR. GIVE ASSISTED RESPIRATION IF BREATHING HAS STOPPED OR IS LABORED (CALL A PHYSICIAN).

INGESTION: GIVE 3 – 4 GLASSES OF WATER OR MILK IF PERSON CONSCIOUS. DO NOT INDUCE VOMITING! OBTAIN MEDICAL CARE AND TREATMENT.

## **SECTION 5. FIRE FIGHTING MEASURES**

FLASH POINT: 93°C (199°F) TCC

AUTO IGNITION TEMP: ND

FLAMMABLE LIMITS: LEL: ND UEL: ND

CONDITIONS OF FLAMMABILITY: NA

OSHA CLASS: NOT REGULATED

HAZARDOUS COMBUSTION PRODUCTS: CO, CO<sub>2</sub>, ALDEHYDES, ACIDS

SENSITIVITY TO IMPACT: ND

SENSITIVITY TO STATIC DISCHARGE: ND

EXTINGUISHING MEDIA: IGNITION MAY GIVE RISE TO A CLASS B FIRE. IN CASE OF FIRE USE: WATER FOG, CARBON DIOXIDE, DRY CHEMICAL, ALCOHOL FOAM.

SPECIAL FIRE FIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING. WATER SPRAY IS USEFUL IN COOLING FIRE-EXPOSED VESSELS AND IN DISPERSING VAPORS.

UNUSUAL FIRE AND EXPLOSIVE HAZARDS: MAY GENERATE TOXIC OR IRRITATING COMBUSTION PRODUCTS. SUDDEN REACTION AND FIRE MAY RESULT IF PRODUCT IS MIXED WITH AN OXIDIZING AGENT.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: SHUT OFF SOURCES OF IGNITION. COVER SPILLS WITH ABSORBENT. PLACE IN METAL CONTAINERS FOR RECOVERY OR DISPOSAL. PREVENT ENTRY INTO SEWERS, STORM DRAINS, AND WATERWAYS.

## **SECTION 7. HANDLING AND STORAGE**

GENERAL: STORE IN COOL, WELL VENTILATED AREAS. KEEP AWAY FROM HEAT AND OPEN FLAMES. AVOID PROLONGED INHALATION OF HEATED VAPORS OR MISTS. AVOID PROLONGED SKIN CONTACT.

STORAGE: AVOID TEMPERATURE EXTREMES. STORE AWAY FROM EXCESSIVE HEAT, FROM SOURCES OF IGNITION AND FROM REACTIVE MATERIALS.

## **SECTION 8. EXPOSURE CONTROLS, PERSONAL PROTECTION**

INGREDIENTS (CAS)	EXPOSURE LIMITS (ppm)		OTHER
	OSHA	ACGIH	
	TWA STEL	TWA STEL	
025068-38-6	NE NE	NE NE	
002210-79-9	NE NE	NE NE	

LEGEND: (M) MAX. EXPOSURE LIMIT; (S) OCCUPATIONAL EXP. LIMIT; (R) SUPPLIERS REC. LIMIT, (+) PERCUTANEOUS RISK

NOTE 1: VALUES MEANINGFUL ONLY WHEN HARDENED PRODUCT IS ABRADED, GROUND, ETC.

ENGINEERING CONTROLS: NO SPECIFIC CONTROLS NEEDED. GENERAL AND LOCAL EXHAUST RECOMMENDED.

RESPIRATORY PROTECTION: NONE REQUIRED IN ADEQUATELY VENTILATED AREAS. IF VAPOR CONCENTRATION EXCEEDS 20ppm FOR LONGER THAN 15 MINUTES, A NIOSH APPROVED RESPIRATOR FOR ORGANIC VAPORS IS RECOMMENDED.

PROTECTIVE GLOVES: NITRILE RUBBER

EYE PROTECTION: SPLASH-PROOF GOGGLES OR CHEMICAL SAFETY GLASSES

**OTHER PROTECTIVE EQUIPMENT:** LONG SLEEVED SHIRTS AND TROUSERS. EMERGENCY SHOWERS AND EYE WASH STATIONS SHOULD BE READILY ACCESSIBLE.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>BOILING POINT:</b> >120°C (199°F)	<b>SPECIFIC GRAVITY:</b> 1.1-1.2
<b>VAPOR PRESSURE:</b> < 0.13 kPA @ 20°C (68°F)	<b>MELTING POINT:</b> ND
<b>VAPOR DENSITY:</b> ND (AIR = 1)	<b>EVAPORATION RATE:</b> <1 (BUTYL ACETATE = 1)
<b>SOLUBILITY IN WATER:</b> INSOLUBLE	<b>pH:</b> NA
<b>COEFFICIENT of WATER/OIL DISTRIBUTION:</b> ND	<b>ODOR THRESHOLD:</b> ND
<b>APPEARANCE AND ODOR:</b> CLEAR TO HAZY AMBER LIQUID, MILD ODOR	<b>% SOLIDS BY WEIGHT:</b> 100%
<b>% VOLATILES BY VOLUME:</b> 0%	

## **SECTION 10. STABILITY AND REACTIVITY**

**STABILITY:** STABLE;

**CONDITIONS TO AVOID:** NOT APPLICABLE (MATERIAL IS STABLE)

**INCOMPATIBILITY (MATERIAL TO AVOID):** OXIDIZING AGENTS (PERCHLORATES, NITRATES), STRONG ACIDS, HYPOCHLORITES, PEROXIDES.

**HAZARDOUS DECOMPOSITION PRODUCTS:** CO, CO<sub>2</sub>

**HAZARDOUS POLYMERIZATION (REACTIVITY):** WILL NOT OCCUR.

## **SECTION 11. TOXICOLOGICAL INFORMATION**

### **ACUTE TOXICITY**

#### **ACUTE ORAL TOXICITY**

VERY LOW TOXICITY IF SWALLOWED. HARMFUL EFFECTS NOT ANTICIPATED FROM SWALLOWING SMALL AMOUNTS

LD<sub>50</sub>, RAT >15,000 mg/kg

#### **ACUTE DERMAL TOXICITY**

PROLONGED SKIN CONTACT IS UNLIKELY TO RESULT IN ABSORPTION OF HARMFUL AMOUNTS

LD<sub>50</sub>, RABBIT 23,000 mg/kg

#### **ACUTE INHALATION TOXICITY**

AT ROOM TEMPERATURE, EXPOSURE TO VAPOR IS MINIMAL DUE TO LOW VOLATILITY. VAPOR FROM HEATED MATERIAL, MIST OR AEROSOLS MAY CAUSE RESPIRATORY IRRITATION.

LC<sub>50</sub> HAS NOT BEEN DETERMINED

#### **SKIN CORROSION/IRRITATION**

PROLONGED CONTACT MAY CAUSE SKIN IRRITATION WITH LOCAL REDNESS.

REPEATED CONTACT MAY CAUSE SKIN IRRITATION WITH LOCAL REDNESS.

#### **SERIOUS EYE DAMAGE/EYE IRRITATION**

MAY CAUSE EYE IRRITATION.

CORNEAL INJURY IS UNLIKELY.

#### **SENSITIZATION**

FOR SIMILAR MATERIAL(S):

HAS CAUSED ALLERGIC SKIN REACTIONS IN HUMANS.

HAS DEMONSTRATED THE POTENTIAL FOR CONTACT ALLERGY IN MICE.

**FOR RESPIRATORY SENSITIZATION:**

NO RELEVANT DATA FOUND.

**SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE)**

EVALUATION OF AVAILABLE DATA SUGGESTS THIS MATERIAL IS NOT AN STOT-SE TOXICANT.

**SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE)**

EXCEPT FOR SKIN SENSITIZATION REPEATED EXPOSURES TO LOW MOLECULAR WEIGHT EPOXY RESINS OF THIS TYPE ARE NOT ANTICIPATED TO CAUSE ANY SIGNIFICANT ADVERSE EFFECTS.

**CARCINOGENIC DATA:** NTP: NONE OSHA: NONE IARC: NONE

**TERATOGENICITY:** NO **MUTAGENICITY:** NO

**EMBRYOTOXICITY:** NO **SYNERGISTIC MATERIAL:** NO

**SECTION 12. ECOLOGICAL INFORMATION**

**TOXICITY**

**ACUTE TOXICITY TO FISH**

MATERIAL IS MODERATELY TOXIC TO AQUATIC ORGANISMS ON AN ACUTE BASIS (LC50/EC50 BETWEEN 1 AND 10 mg/l IN THE MOST SENSITIVE SPECIES TESTED)

LC50, ONCORHYNCHUS MYKISS (RAINBOW TROUT), SEMI-STATIC TEST. 96 HR, 2 mg/l

**ACUTE TOXICITY TO AQUATIC INVERTEBRATES**

EC50, DAPHNIA MAGNA (WATER FLEA), STATIC TEST, 48 HR, 1.8 mg/l

**ACUTE TOXICITY TO ALGAE/AQUATIC PLANTS**

ErC50, SCENEDESMUS CAPRICORNUTUM (FRESH WATER ALGAE), STATIC TEST, 72 HR, GROWTH RATE INHIBITION 11mg/L

**TOXICITY TO BACTERIA**

IC50, BACTERIA, 18 HR, RESPIRATION RATES > 42.6 mg/l

**CHRONIC AQUATIC TOXICITY**

**CHRONIC TOXICITY TO AQUATIC INVERTEBRATES**

MATC (MAXIMUM ACCEPTABLE TOXICANT LEVEL), DAPHNIA MAGNA, SEMI STATIC TEST, 21 d, NUMBER OF OFFSPRING, 0.55 mg/l

**PERSISTENCE AND DEGRADABILITY**

**BIODEGRADABILITY:** BASED ON STRINGENT OECD TEST GUIDELINES, THIS MATERIAL CANNOT BE CONSIDERED READILY BIODEGRADABLE; HOWEVER, THESE RESULTS DO NOT NECESSARILY MEAN THAT THE MATERIAL IS NOT BIODEGRADABLE UNDER ENVIRONMENTAL CONDITIONS.

**10 DAY WINDOW:** NA

**BIODEGRADATION:** 12%

**EXPOSURE TIME:** 28 DAYS

**METHOD:** OECD TEST GUIDELINE 302B OR EQUIVALENT

**THEORETICAL OXYGEN DEMAND:** 2.35 mg/mg ESTIMATED

**PHOTODEGRADATION**

**TEST TYPE:** HALF-LIFE (INDIRECT PHOTOLYSIS)

**SENSITIZER:** OH RADICALS

**ATMOSPHERIC HALF-LIFE:** 1.92 HR

**METHOD:** ESTIMATED

**BIOACCUMULATIVE POTENTIAL**

**BIOACCUMULATION:** BIOCONCENTRATION POTENTIAL IS MODERATE (BCF BETWEEN 100 AND 3000 OR LOG POW BETWEEN 3 AND 5)

**PARTITION COEFFICIENT:** N-OCTANOL/WATER (LOG POW): 3.242 @25°C ESTIMATED  
MOBILITY IN SOIL

POTENTIAL FOR MOBILITY IN SOIL IS LOW (K<sub>oc</sub> BETWEEN 500 AND 2000)

GIVEN ITS VERY LOW HENRY'S CONSTANT, VOLATIZATION FROM NATURAL BODIES OF WATER OR MOIST SOIL IS NOT EXPECTED TO BE AN IMPORTANT FATE PROCESS

**PARTITION COEFFICIENT (K<sub>oc</sub>):** 1800-4400 ESTIMATED

### **SECTION 13. DISPOSAL INFORMATION**

**WASTE DISPOSAL METHODS:** NOT A HAZARDOUS WASTE BY RCRA CRITERIA (40 CFR 261). PLACE IN AN APPROPRIATE DISPOSAL FACILITY IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

### **SECTION 14. TRANSFORMATION INFORMATION**

**DOT PROPER SHIPPING NAME:** RESIN COMPOUND, NOT REGULATED

**HAZARD CLASS:** NA

**UN NUMBER:** NA

**PACKAGING GROUP:** NA

**DOT PRODUCT RQ LBS (KGS):** NA

**HAZARD LABEL:** NA

**HAZARD PLACARD:** NA

**IMO SHIPPING DATA:** UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. (EPOXY RESIN) , 9, PGIII

**ICAO/IATA SHIPPING DATA:** UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. (EPOXY RESIN) , 9, PGIII

**ADDITIONAL INFORMATION:** NONE

### **SECTION 15. REGULATORY INFORMATION**

**VOC COMPONENT:** 0 grams/Liter **AS APPLIED:** 0 grams/Liter (PART OF MULTI-COMPONENT SYSTEM)

**TSCA (TOXIC SUBSTANCE CONTROL ACT):** ALL COMPONENTS ARE LISTED IN THE TSCA CHEMICAL SUBSTANCE INVENTORY.

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION and LIABILITY ACT):** ND

**SARA TITLE III**

**SECTION 312 HAZARD CLASS:** IMMEDIATE (ACUTE) HEALTH HAZARD, DELAYED (CHRONIC) HEALTH HAZARD

**SECTION 313 LISTED INGREDIENTS:** NONE ABOVE de Minimus LEVELS

**CALIFORNIA PROPOSITION 65:** THE BELOW LIST OF COMPOUNDS IS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM: NONE.

### **SECTION 16. ADDITIONAL INFORMATION**

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PREPARED BY: C.STOKES

**HAZARD RATING**

**HMIS:**

**HEALTH 1**

**FLAMMABILITY 1**

**REACTIVITY 2**

**LEGEND**

ACGIH: AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS

OSHA: OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

STEL: SHORT TERM EXPOSURE LIMIT

TWA: TIME WEIGHTED AVERAGE

PEL: PERMISSIBLE EXPOSURE LIMIT

TLV: THRESHOLD LIMIT VALUE

NA: NOT APPLICABLE

NE: NOT ESTABLISHED

ND: NO DATA

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