



Epoxy-Clear

Clear Epoxy
100% Solids

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product Name: 100% SOLIDS CLEAR EPOXY

Product Code: Epoxy-Clear

Coatary LLC
6108 W 9790 S
West Jordan, UT 84081

EMERGENCY CONTACT: **PERS**
DOMESTIC & CANADA : (800) 633-8253
INTERNATIONAL: (801) 629-0667

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

HAZARDOUS INGREDIENTS	Wt. %	CAS Number
4,4'-ISOPROPYLDIPHENOL-EPICHLOROHYDRIN COPOLYMER	60-100	025068-38-6
O-CRESYL GLYCIDYLEETHER	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, CO₂, 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

BOILING POINT: >120°C (199°F)	SPECIFIC GRAVITY: 1.1-1.2
VAPOR PRESSURE: < 0.13 kPA @ 20°C (68°F)	MELTING POINT: ND
VAPOR DENSITY: ND (AIR = 1)	EVAPORATION RATE: <1 (BUTYL ACETATE = 1)
SOLUBILITY IN WATER: INSOLUBLE	pH: NA
COEFFICIENT of WATER/OIL DISTRIBUTION: ND	ODOR THRESHOLD: ND
APPEARANCE AND ODOR: CLEAR TO HAZY AMBER LIQUID, MILD ODOR	% SOLIDS BY WEIGHT: 100%
% VOLATILES BY VOLUME: 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, CO₂

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

LD₅₀, RAT >15,000 mg/kg

ACUTE DERMAL TOXICITY

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

LD₅₀, 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.

LC₅₀ 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_{oc} 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_{oc}): 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

INITIAL ISSUE DATE: APRIL 4, 2023

REVISION DATE:

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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