



Epoxy-Hardener

EPOXY HARDENER
100% Solids

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product Name: 100% EPOXY HARDENER

Product Code: EPOXY-HARDENER

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SECTION 2. HAZARDS IDENTIFICATION

GLOBALLY HARMONIZED SYSTEM (GHS)

SKIN IRRITATION: CATEGORY 1B

EYE IRRITATION: CATEGORY 1

SKIN SENSITIZATION: CATEGORY 1

GHS LABEL ELEMENTS

HAZARD PICTOGRAMS



GHS05 GHS07

SIGNAL WORD: DANGER

HAZARD STATEMENTS

H314: CAUSES SEVERE SKIN BURNS AND EYE DAMAGE

H317: MAY CAUSE ALLERGIC SKIN REACTION

PRECAUTIONARY STATEMENTS:

PREVENTION

P260: DO NOT BREATHE DUSTS OR MISTS

P264: WASH SKIN THOROUGHLY AFTER HANDLING

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

| <u>HAZARDOUS INGREDIENTS</u> | <u>Wt. %</u> | <u>CAS Number</u> |
|--|--------------|-------------------|
| 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE | 15-25 | 2855-13-2 |

SECTION 4. FIRST AID MEASURES

GENERAL: IMMEDIATELY REMOVE ANY CLOTHING SOILED BY PRODUCT.

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: >100 C (212°F) TCC

FLAMMABLE LIMITS: LEL: ND UEL: ND

AUTO IGNITION TEMP: ND

CONDITIONS OF FLAMMABILITY: NA

OSHA CLASS: NOT REGULATED

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. DO NOT INHALE 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: PROTECTIVE GLOVES THAT ARE IMPERMEABLE AND RESISTANT TO THE PRODUCT.

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)

VAPOR PRESSURE: ND

VAPOR DENSITY: ND (AIR = 1)

SOLUBILITY IN WATER: INSOLUBLE

COEFFICIENT of WATER/OIL DISTRIBUTION: ND

APPEARANCE AND ODOR: YELLOWISH LIQUID, AMINE-LIKE ODOR

% VOLATILES BY VOLUME: 0%

SPECIFIC GRAVITY: ND

MELTING POINT: ND

EVAPORATION RATE: ND

pH: NA

FLASH POINT: >100 C (>212 F)

% SOLIDS BY WEIGHT: 100%

SECTION 10. STABILITY AND REACTIVITY

STABILITY: STABLE;

CONDITIONS TO AVOID: NOT APPLICABLE (MATERIAL IS STABLE)

INCOMPATIBILITY (MATERIAL TO AVOID): NONE KNOWN

HAZARDOUS DECOMPOSITION PRODUCTS: NONE KNOWN

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, HAS NOT BEEN DETERMINED

ACUTE DERMAL TOXICITY

PROLONGED SKIN CONTACT IS UNLIKELY TO RESULT IN ABSORPTION OF HARMFUL AMOUNTS LD50, HAS NOT BEEN DETERMINED

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

CAUSTIC AFFECT ON SKIN AND MUCOUS MEMBRANES

SERIOUS EYE DAMAGE/EYE IRRITATION

STRONG CAUSTIC AFFECT.

STRONG IRRITANT WITH THE DANGER OF SEVERE EYE INJURY.

SENSITIZATION

FOR SIMILAR MATERIAL(S):

HAS CAUSED ALLERGIC SKIN REACTIONS IN HUMANS.

SENSITIZATION POSSIBLE THROUGH SKIN CONTACT.

FOR RESPIRATORY SENSITIZATION:

NO RELEVANT DATA FOUND.

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. HAS NOT BEEN DETERMINED

ACUTE TOXICITY TO AQUATIC INVERTEBRATES

EC50, DAPHNIA MAGNA (WATER FLEA), STATIC TEST, 48 HR, HAS NOT BEEN DETERMINED

ACUTE TOXICITY TO ALGAE/AQUATIC PLANTS

ErC50, SCENEDESMUS CAPRICORNUTUM (FRESH WATER ALGAE), STATIC TEST, 72 HR, GROWTH RATE INHIBITION HAS NOT BEEN DETERMINED.

TOXICITY TO BACTERIA

IC50, BACTERIA, 18 HR, RESPIRATION RATES HAS NOT BEEN DETERMINED

CHRONIC AQUATIC TOXICITY

CHRONIC TOXICITY TO AQUATIC INVERTEBRATES

MATC (MAXIMUM ACCEPTABLE TOXICANT LEVEL), DAPHNIA MAGNA, SEMI STATIC TEST, 21 d, NUMBER OF OFFSPRING, HAS NOT BEEN DETERMINED

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.

SECTION 13. DISPOSAL INFORMATION

WASTE DISPOSAL METHODS: DISPOSAL MUST BE MADE ACCORDING TO OFFICIAL REGULATIONS.

SECTION 14. TRANSFORMATION INFORMATION

DOT PROPER SHIPPING NAME: AMINES, LIQUID, CORROSIVE, N.O.S. ISOPHORONEDIAMINE

HAZARD CLASS: 8 CORROSIVE SUBSTANCES

UN NUMBER: UN2735

PACKAGING GROUP: III

SEGREGATION CODE: SG35 STOW SEPERATED FROM ACIDS

HAZARD LABEL: 8

HAZARD PLACARD: WARNING: CORROSIVE SUBSTANCES

IMO SHIPPING DATA: UN2735 CORROSIVE SUBSTANCE, LIQUID N.O.S. (ISOPHORONEDAMINE) , 8, PGIII

ICAO/IATA SHIPPING DATA: UN2735 CORROSIVE SUBSTANCE, LIQUID N.O.S. (ISOPHORONEDAMINE) , 8, PGIII

SEGREGATION GROUPS: ALKALIS

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 20, 2023

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PREPARED BY: C.STOKES

HAZARD RATING

HMIS: HEALTH 3 FLAMMABILITY 1 REACTIVITY 0

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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