

# ECO CorFlex

## Molecular Industrial Polymers

### SAFETY DATA SHEET

**PRODUCT NAME: 100% SOLIDS NON-MOISTURE - (PART B)**

**HMIS CODES: H F F**

**PRODUCT DESCRIPTION: NON-MOISTURE EPOXY (2A: 1B)**

2 1 1

#### SECTION I: COMPANY IDENTIFICATION

<b>DISTRIBUTOR'S NAME:</b>	ECO-CORFLEX INDUSTRIAL POLYMERS		
<b>ADDRESS:</b>	3801 E. ROESER ROAD, SUITE #1, PHOENIX, AZ 85040		
<b>EMERGENCY PHONE #:</b>	1-800-255-3924	<b>DATE REVISED:</b>	JUL 26, 2021
<b>INFORMATION PHONE #:</b>	1-866-406-2628	<b>NAME OF PREPARER:</b>	TECH. DEPT.

#### SECTION II: HAZARDS IDENTIFICATION

GLOBALY HARMONIZED SYSTEM (GHS)

CLASSIFICATION:

ACUTE TOXICITY- ORAL: CATEGORY 4

ACUTE TOXICITY-INHALATION: CATEGORY 4

SKIN CORROSION: CATEGORY 1B

EYE DAMAGE: CATEGORY 1

SKIN SENSITIZATION: CATEGORY 1

REPRODUCTIVE TOXICITY: CATEGORY 2

GHS LABEL ELEMENTS

HAZARD PICTOGRAMS



**SIGNAL WORD: DANGER!**

**HAZARD STATEMENTS**

H302+H312: HARMFUL IN CONTACT WITH SKIN OR IF SWALLOWED

H314: CAUSES SEVERE SKIN BURNS AND EYE DAMAGE

H317: MAY CAUSE AN ALLERGIC SKIN REACTION

H361: SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD

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#### SECTION II: HAZARDS IDENTIFICATION (CONT'D)

##### PRECAUTIONARY STATEMENTS:

##### PREVENTION

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

P264: WASH SKIN THOROUGHLY AFTER HANDLING

P270: DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT

P280: WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE PROTECTION/ FACE PROTECTION

##### RESPONSE

P303+P353+P361: IF ON SKIN (OR HAIR): REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER

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.

P304+P340 IF INHALED: REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING

P301+P331: IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE VOMITING

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

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

##### DISPOSAL

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

##### HAZARDS NOT OTHERWISE CLASSIFIED

HARMFUL IF SWALLOWED

MAY CAUSE SENSITIZATION BY SKIN CONTACT

HARMFUL BY INHALATION

CORROSIVE

#### SECTION III: COMPOSITION & INFORMATION ON INGREDIENTS

##### HAZARDOUS INGREDIENTS

**BENZYL ALCOHOL** – WT: 30-60; CAS NUMBER: 000100-51-6

**BENZENE-1,3-DIMETHANEAMINE** – WT: 10-30; CAS NUMBER: 001477-55-0

**ISOPHORONEDIAMINE** – WT: 10-30; CAS NUMBER: 002855-13-2

**NONYLPHENOL** – WT: 7-15; CAS NUMBER: 025154-52-3

**PARATERTIARYBUTYLPHENOL** – WT: 1-5; CAS NUMBER: 000098-54-4

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#### SECTION IV: FIRST AID MEASURES

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

**EYES:** HOLD EYELIDS APART, INITIATE AND MAINTAIN GENTLE AND CONTINUOUS IRRIGATION UNTIL THE PATIENT RECEIVES MEDICAL CARE. IF MEDICAL CARE IS NOT PROMPTLY AVAILABLE CONTINUE TO IRRIGATE FOR ONE HOUR.

**SKIN:** IMMEDIATELY REMOVE CONTAMINATED CLOTHING AND EXTRANEIOUS CHEMICAL, IF POSSIBLE TO DO WITHOUT DELAY. INITIATE AND MAINTAIN CONTINUOUS IRRIGATION UNTIL THE PATIENT RECEIVES MEDICAL CARE. IF MEDICAL CARE IS NOT PROMPTLY AVAILABLE CONTINUE TO IRRIGATE FOR ONE HOUR.

**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.

**NOTE TO PHYSICIANS:** APPLICATION OF CORTICOSTEROID CREAM HAS BEEN EFFECTIVE IN TREATING SKIN IRRITATION

#### SECTION V: FIRE FIGHTING MEASURES

**FLASH POINT:** 121°C (250°F) – PMCC

**OSHA CLASS:** IIIIB

**CONDITIONS OF FLAMMABILITY:** NA

**AUTO IGNITION TEMP.:** NA

**FLAMMABLE LIMITS:** LEL: NE UEL: NE

**SENSITIVITY TO IMPACT:** NONE

**HAZARDOUS COMBUSTION PRODUCTS:** CO, CO<sub>2</sub>, NH<sub>3</sub>. NITROGEN OXIDES CAN BE PRODUCED IF HEATED, BURNED OR REACTED WITH INCOMPATIBLE MATERIALS. NITROGEN OXIDES CAN REACT WITH WATER VAPORS TO FORM CORROSIVE NITRIC ACID.

**SENSITIVITY TO STATIC DISCHARGE:** NONE

**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:** NONE LIKELY WITH SMALL QUANTITIES. FOR LARGE QUANTITIES, FIREFIGHTERS AND OTHERS EXPOSED TO VAPORS OR PRODUCTS OF COMBUSTION SHOULD WEAR BUTYL RUBBER BOOTS, GLOVES AND BODY SUIT. SELF-CONTAINED BREATHING APPARATUS SHOULD BE WORN.

**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.

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#### SECTION VI: 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 VII: HANDLING AND STORAGE

**HANDLING:** AVOID CONTACT WITH SKIN AND EYES. EMERGENCY SHOWERS AND EYE WASH STATIONS SHOULD BE READILY ACCESSIBLE. ADHERE TO WORK PRACTICE RULES ESTABLISHED BY GOVERNMENT REGULATIONS. USE PERSONAL PROTECTIVE EQUIPMENT. WHEN USING DO NOT EAT, DRINK OR SMOKE.  
**STORAGE:** KEEP AWAY FROM OXIDIZERS, HEAT OR FLAME. STORE IN STEEL CONTAINERS. DO NOT STORE NEAR ACIDS. KEEP CONTAINERS TIGHTLY CLOSED IN A DRY, COOL AND WELL-VENTILATED PLACE.

#### SECTION VIII: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS (CAS)	EXPOSURE LIMITS (PPM)				OTHER
	OSHA		ACGIH		
	TWA	STEL	TWA	STEL	
000100-51-6	10	NE	NE	NE	
001477-55-0	NE	NE	NE	NE	
002855-13-2	NE	NE	NE	NE	
025154-52-3	NE	NE	NE	NE	
000098-54-4	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

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#### SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

**BOILING POINT:** 260°C (500°F)

**SPECIFIC GRAVITY:** 0.96

**VAPOR PRESSURE:** ND

**MELTING POINT:** 0°C (32°F)

**VAPOR DENSITY (AIR = 1):** ND

**EVAPORATION RATE (BUTYL ACETATE = 1):** ND

**SOLUBILITY IN WATER:** <1%

**pH:** NE (ALKALINE)

**COEFFICIENT OF WATER/OIL DISTRIBUTION:** ND

**ODOR THRESHOLD:** ND

**APPEARANCE AND ODOR:** CLEAR TO AMBER LIQUID, AMMONIACAL ODOR

**% VOLATILES BY VOLUME:** 0%

**%SOLIDS BY WEIGHT:** 100%

#### SECTION X: STABILITY & REACTIVITY

**STABILITY:** STABLE

**CONDITIONS TO AVOID:** AVOID ELEVATED TEMPERATURES

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

**HAZARDOUS DECOMPOSITION PRODUCTS:** NITRIC ACID, AMMONIA, NITROGEN OXIDES, CO, CO<sub>2</sub>, ALDEHYDES, FLAMMABLE HYDROCARBON FRAGMENTS

**HAZARDOUS POLYMERIZATION (REACTIVITY):** ND

#### SECTION XI: TOXICOLOGICAL INFORMATION

**LIKELY ROUTES OF EXPOSURE:** EYE CONTACT, SKIN CONTACT, INHALATION, INGESTION.

##### EYES:

ACUTE – SEVERE IRRITANT. MAY CAUSE BURNS. VAPOR MAY CAUSE LACRIMATION AND REVERSIBLE CORNEAL EDEMA.

CHRONIC– CONJUNCTIVITIS OR CORNEAL DAMAGE.

##### SKIN CONTACT:

ACUTE – UNDILUTED PRODUCT QUICKLY CAUSES IRRITATION. MAY CAUSE CHEMICAL BURNS.

CHRONIC – MAY CAUSE ALLERGIC REACTION/SENSITIZATION, DEFATTING OF SKIN, RASH AND IRRITATION.

##### SKIN ABSORPTION:

ACUTE – ND

CHRONIC – ND

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#### SECTION XI: TOXICOLOGICAL INFORMATION (CONT'D)

##### INHALATION:

ACUTE – VAPORS MAY CAUSE DAMAGE TO CONTACTED TISSUE AND PRODUCE SCARRING.

CHRONIC- REPEATED AND/OR PROLONGED EXPOSURES CAN CAUSE TIGHTNESS OF CHEST, SHORTNESS OF BREATH AND COUGH.

##### INGESTION:

ACUTE – MAY CAUSE IRRITATION AND BLEEDING OF THE GASTROINTESTINAL TRACT

CHRONIC – SCARRING OF THE AFFECTED TISSUES MAY OCCUR.

**ACUTE TOXICITY:** NO DATA ON THE PRODUCT ITSELF

##### ACUTE ORAL TOXICITY- COMPONENTS

BENZYL ALCOHOL - LD50: 1230 mg/kg; SPECIES: RAT

BENZENE-1,3-DIMETHANEAMINE - LD50: 980 mg/kg; SPECIES: RAT

ISOPHORONE DIAMINE - LD50: 1030 mg/kg; SPECIES: RAT

NONYLPHENOL - LD50: 1604 mg/kg; SPECIES: RAT

PARATERTIARYBUTYLPHENOL - LD50: 1951 mg/kg; SPECIES: RAT

##### ACUTE DERMAL TOXICITY- COMPONENTS

BENZYL ALCOHOL - LD50: 2000 mg/kg; SPECIES: RABBIT

BENZENE-1,3-DIMETHANEAMINE - LD50: 2000 mg/kg; SPECIES: RABBIT

ISOPHORONE DIAMINE - LD50: 1840 mg/kg; SPECIES: RABBIT

NONYLPHENOL - LD50: 2031 mg/kg; SPECIES: RABBIT

PARATERTIARYBUTYLPHENOL - LD50: 2288 mg/kg; SPECIES: RABBIT

##### ACUTE INHALATION TOXICITY- COMPONENTS

BENZYL ALCOHOL - LC50 (4 HR): > 4.178mg/l SPECIES: RAT

OECD TEST GUIDELINE 403

**SKIN CORROSION/IRRITATION:** SEVERE SKIN IRRITATION. CORROSIVE IN AN INVITRO TEST

SERIOUS EYE DAMAGE/EYE IRRITATION: SEVERE EYE IRRITATION

SENSITIZATION: ND

SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE): ND

SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE): ND

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

TERATOGENICITY: NO; MUTAGENICITY: NO; EMBRYOTOXICITY: NO; SYNERGISTIC MATERIAL: NO

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#### SECTION XII: ECOLOGICAL INFORMATION

##### TOXICITY

**AQUATIC TOXICITY:** NO DATA ON THE PRODUCT ITSELF

##### ACUTE TOXICITY TO FISH- COMPONENTS

BENZYL ALCOHOL - LC50 (96 HRS): 460 mg/l; SPECIES: FATHEAD MINNOW

NONYLPHENOL - LC50 (96HRS): 0.14 mg/l; SPECIES: PIMEPHALES PROMELAS

##### ACUTE TOXICITY TO AQUATIC INVERTEBRATES: COMPONENT

BENZYL ALCOHOL - EC50 (72 HRS): 12 mg/l; SPECIES: DAPHNIA MAGNA

NONYLPHENOL - EC50 (48 HRS): 0.035 mg/l; SPECIES: DAPHNIA MAGNA

##### ACUTE TOXICITY TO ALGAE/AQUATIC PLANTS: COMPONENTS

BENZENE-1,3-DIMETHANEAMINE - EC50 (72 HRS): 12 mg/l; SPECIES: FRESH WATER ALGAE

BENZYL ALCOHOL - EC50 (72 HRS): 700 mg/l; SPECIES: FRESH WATER ALGAE

NONYLPHENOL - LC50 (72 HRS): 0.056 mg/l; SPECIES: FRESH WATER ALGAE

##### TOXICITY TO BACTERIA: COMPONENTS

NONYLPHENOL - EC50: 950 mg/l; ACTIVATED SLUDGE

##### CHRONIC AQUATIC TOXICITY

**CHRONIC TOXICITY TO AQUATIC INVERTEBRATES:** ND

##### PERSISTANCE AND DEGRADABILITY

**BIODEGRADABILITY:** ND

##### BIOACCUMULATIVE POTENTIAL:

NO DATA ON PRODUCT ITSELF

##### BIOACCUMULATION: COMPONENTS:

BENZYL ALCOHOL: LOW BIOACCUMULATION POTENTIAL

**MOBILITY IN SOIL:** ND

#### SECTION XIII: DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHODS:** THIS PRODUCT SHOULD NOT BE ALLOWED TO ENTER DRAINS, WATER COURSES OR THE SOIL. INCINERATION IS PREFERRED. COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. CHEMICAL AND/OR BIOLOGICAL DEGRADATION IS FEASIBLE.

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#### SECTION XIV: TRANSPORTATION INFORMATION

**DOT PROPER SHIPPING NAME:**

AMINES, LIQUID, CORROSIVE, N.O.S. (BENZENE-1,3-DIMETHANEAMINE)

**HAZARD CLASS:** 8      **UN NUMBER:** UN 2735      **PACKING GROUP:** III

**IMO SHIPPING DATA:**

UN2735, AMINES, LIQUID, CORROSIVE, N.O.S. (BENZENE-1,3-DIMETHANEAMINE), 8, PG III

**ICAO/IATA SHIPPING DATA:**

UN2735, AMINES, LIQUID, CORROSIVE, N.O.S. (BENZENE-1,3-DIMETHANEAMINE), 8, PG III

**ADDITIONAL INFORMATION:** NONE

#### SECTION XV: 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:** PHENOL

**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 XVI: OTHER INFORMATION (CONT'D)

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



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#### SECTION XVI: OTHER INFORMATION (CONT'D)

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NE: NOT ESTABLISHED

ND: NO DATA

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#### DISCLAIMER

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