

ECO CorFlex

Molecular Industrial Polymers

SAFETY DATA SHEET

PRODUCT NAME: POLY – POLY ENHANCE (PART A)

HMS RATINGS: H F R

PRODUCT DESCRIPTION: CLEAR POLYURETHANE (2A: 1B)

2 1 1

SECTION I: COMPANY IDENTIFICATION

DISTRIBUTOR'S NAME:	ECO-CORFLEX INDUSTRIAL POLYMERS		
ADDRESS:	4350 S. 38 TH ST., SUITE #110, PHOENIX, AZ 85040		
EMERGENCY PHONE #:	1-800-255-3924	DATE REVISED:	MAR 17, 2023
INFORMATION PHONE #:	1-866-406-2628	NAME OF PREPARER:	TECH. DEPT.

SECTION II: HAZARDS IDENTIFICATION

GLOBALLY HARMONIZED SYSTEM (GHS)

CLASSIFICATION:

ASPIRATION HAZARD: CATEGORY 1

FLAMMABLE LIQUIDS: CATEGORY 2

ACUTE TOXICITY: CATEGORY 4 (INHALATION-MIST)

SKIN CORROSION: CATEGORY 2

EYE DAMAGE: CATEGORY 2A

RESPIRATORY SENSITIZATION: CATEGORY 1

SKIN SENSITIZATION: CATEGORY 1

CARCINOGENICITY: CATEGORY 2

ACUTE AQUATIC TOXICITY: CATEGORY 2

GHS LABEL ELEMENTS

HAZARD PICTOGRAMS



SIGNAL WORD: WARNING!

HAZARD STATEMENTS

H226: FLAMMABLE LIQUID AND VAPOR

H319: CAUSES SERIOUS EYE IRRITATION

H315: CAUSES SKIN IRRITATION

H332: HARMFUL IF INHALED

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SECTION II: HAZARDS IDENTIFICATION (CONT'D)

H334: MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED

H317: MAY CAUSE AN ALLERGIC SKIN REACTION

H304: MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAY

H335: MAY CAUSE RESPIRATORY IRRITATION

H351: SUSPECTED OF CAUSING CANCER

H373: MAY CAUSE DAMAGE TO ORGANS (AUDITORY ORGAN) THROUGH PROLONGED OR REPEATED EXPOSURE

H402: HARMFUL TO AQUATIC LIFE

PRECAUTIONARY STATEMENTS:

PREVENTION

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

P271: USE ONLY OUTDOORS OR IN WELL VENTILATED AREA

P260: DO NOT BREATHE DUST/GAS/MIST/VAPORS

P210: KEEP AWAY FROM HEAT, SPARKS, OPEN FLAMES, AND HOT SURFACES. NO SMOKING

P273: AVOID RELEASE TO THE ENVIRONMENT

P284: (IN CASE OF INADEQUATE VENTILATION) WEAR RESPIRATORY PROTECTION

P240: GROUND/BOND CONTAINER AND RECEIVING EQUIPMENT

P241: USE EXPLOSION-PROOF ELECTRICAL, VENTILATING AND LIGHTING EQUIPMENT

P242: USE ONLY NON-SPARKING TOOLS

P243: TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGE

P272: CONTAMINATED WORK CLOTHING SHOULD NOT BE ALLOWED OUT OF THE WORKPLACE

P264 WASH WITH PLENTY OF WATER AND SOAP THOROUGHLY AFTER HANDLING

RESPONSE

P303+P361+353: 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.

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

P304+P341+P311: IF INHALED: IF BREATHING IS DIFFICULT REMOVE TO AND MAKE COMFORTABLE FOR BREATHING. CALL A POISON CENTER OR DOCTOR/PHYSICIAN

P301+P310: IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN

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P331: DO NOT INDUCE VOMITING

P370+P378: IN CASE OF FIRE: USE DRY CHEMICAL, CARBON DIOXIDE (CO₂), FOAM, OR WATER SPRAY (FOR LARGE FIRES) TO EXTINGUISH

STORAGE

P403+P235: STORE IN A WELL-VENTILATED PLACE. KEEP COOL

P233: KEEP CONTAINER TIGHTLY CLOSED

DISPOSAL

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

OTHER HAZARDS: NO DATA AVAILABLE

EMERGENCY OVERVIEW:

DANGER!

HARMFUL OR FATAL IF SWALLOWED

HARMFUL IF INHALED

RESPIRATORY SENSITIZER

CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION

CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING

ORGANS: BLOOD, KIDNEYS, LIVER, GASTROINTESTINAL TRACT,

RESPIRATORY TRACT, SKIN, NERVOUS SYSTEM, EYE, LENS OR CORNEA

FLAMMABLE LIQUID AND VAPOR

VAPOR MAY CAUSE FLASH FIRE

MAY BE HARMFUL IF ABSORBED THROUGH SKIN

SKIN SENSITIZER

POSSIBLE CANCER HAZARD

CONTAINS MATERIAL WHICH CAN CAUSE CANCER

SECTION III: COMPOSITION & INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	CAS #	% BY WEIGHT
XYLENE-MIXED ORTHO, META & PARA ISOMERS	001330-20-7	15 - 40
ACETONE	000067-64-1	7 - 15
ETHYLBENZENE	000100-41-4	0.1 – 1.0

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SECTION IV: 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 V: FIRE FIGHTING MEASURES

FLASH POINT: -20°C (-4°F) TCC (ACETONE)

CONDITIONS OF FLAMMABILITY: NA

FLAMMABLE LIMITS: (ACETONE) LEL: 2.6%; UEL: 12.8%

OSHA CLASS: FLAMMABLE LIQUID, PACKING GROUP II

AUTO IGNITION TEMP: 465°C (869°F)

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. SOLVENT VAPORS MAY BE HEAVIER THAN AIR. UNDER CONDITIONS OF STAGNANT AIR, VAPORS. MAY BUILD UP AND TRAVEL ALONG THE GROUND TO AN IGNITION SOURCE.

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.

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2 1 1

SECTION VII: 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. USE NON-SPARKING TOOLS AND GROUNDING CABLES WHEN TRANSFERRING. CONTAINERS MAY BE HAZARDOUS WHEN EMPTY.

STORAGE: AVOID TEMPERATURE EXTREMES. STORE AWAY FROM EXCESSIVE HEAT, FROM SOURCES OF IGNITION AND FROM REACTIVE MATERIALS. MATERIAL CAN BURN; LIMIT INDOOR STORAGE TO AREAS EQUIPPED WITH AUTOMATIC SPRINKLERS. STORE OUT OF DIRECT SUNLIGHT IN A COOL PLACE. KEEP CONTAINERS TIGHTLY CLOSED. GROUND ALL METAL CONTAINERS DURING STORAGE AND HANDLING.

SECTION VIII: EXPOSURE CONTROL / PERSONAL PROTECTION

COMPONENT	CAS #	% BY WEIGHT
XYLENE-MIXED ORTHO, META & PARA ISOMERS ACGIH (TWA/STEL) : 100 / 150 PPM OSHA (TWA/STEL) : 100 / 150 PPM	001330-20-7	15 - 40
ACETONE ACGIH (TWA/STEL) : 750 / NE PPM OSHA (TWA/STEL) : 750 / NE PPM	000067-64-1	7 - 15
ETHYLBENZENE ACGIH (TWA/STEL) : 100 / 125 PPM OSHA (TWA/STEL) : 100 / 125 PPM	000100-41-4	0.1 – 1.0

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

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

ENGINEERING CONTROLS: EXHAUST VENTILATION SUFFICIENT TO KEEP AIRBORNE CONCENTRATION OF THE SOLVENTS BELOW THEIR RESPECTIVE TLV'S. EXHAUST AIR MAY NEED TO BE CLEANED BY SCRUBBERS OR FILTERS TO REDUCE ENVIRONMENTAL CONTAMINATION.

PROTECTIVE GLOVES: NITRILE RUBBER.

EYE PROTECTION: SPLASH-PROOF GOGGLES OR CHEMICAL SAFETY GLASSES.

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.

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

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2 1 1

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 56.2°C (133.2°F) (ACETONE)

SPECIFIC GRAVITY: 0.95-1.05

VAPOR PRESSURE: 180MM HG (ACETONE)

MELTING POINT: ND

VAPOR DENSITY (AIR = 1): 2.0
>1

EVAPORATION RATE (BUTYL ACETATE = 1):

SOLUBILITY IN WATER: INSOLUBLE

PH: NA

COEFFICIENT OF WATER/OIL DISTRIBUTION: ND

ODOR THRESHOLD: ND

APPEARANCE AND ODOR: CLEAR TO HAZY LIQUID; SWEET SOLVENT ODOR

% VOLATILES BY VOLUME: 62%

%SOLIDS BY WEIGHT: 46%

SECTION X: STABILITY & REACTIVITY DATA

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 XI: TOXICOLOGICAL INFORMATION

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

EYES:

ACUTE – LIQUID, AEROSOLS OR VAPORS ARE SEVERELY IRRITATING AND CAN CAUSE PAIN, TEARING, REDDENING AND SWELLING. IF LEFT UNTREATED, CORNEAL DAMAGE CAN OCCUR AND INJURY IS SLOW TO HEAL. HOWEVER, DAMAGE IS USUALLY REVERSIBLE.

CHRONIC – PROLONGED VAPOR CONTACT MAY CAUSE CONJUNCTIVITIS.

SKIN CONTACT:

ACUTE – REPEATED OR PROLONGED SKIN CONTACT CAN RESULT IN DRY, DEFATTED AND CRACKED SKIN CAUSING INCREASED SUSCEPTIBILITY TO INFECTION. IN ADDITION IRRITATION MAY DEVELOP INTO DERMATITIS. SOLVENTS CAN PENETRATE THE SKIN AND MAY CAUSE EFFECTS SIMILAR TO THOSE IDENTIFIED UNDER ACUTE INHALATION SYMPTOMS.

CHRONIC – MAY CAUSE EFFECTS SIMILAR TO THOSE IDENTIFIED UNDER CHRONIC INHALATION EFFECTS.

ECO CorFlex

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2 1 1

SKIN ABSORPTION:

ACUTE – ND

SECTION XI: TOXICOLOGICAL INFORMATION

CHRONIC – ND

INHALATION:

ACUTE – SOLVENT VAPORS ARE IRRITATING TO THE EYES NOSE AND THROAT. SYMPTOMS OF IRRITATION MAY INCLUDE RED, ITCHY EYES, DRYNESS OF THE THROAT AND A FEELING OF TIGHTNESS IN THE CHEST. OTHER POSSIBLE SYMPTOMS OF OVEREXPOSURE INCLUDE: HEADACHE, DIZZINESS, NAUSEA, NARCOSIS FATIGUE AND LOSS OF APPETITE. PERSONS EXPOSED TO 200 PPM OF XYLENE EXPERIENCED EYE, NOSE AND THROAT IRRITATION. CONCENTRATIONS OF 10,000 PPM OF XYLENE CAN BE IMMEDIATELY DANGEROUS TO LIFE AND HEALTH.

CHRONIC – CHRONIC EXPOSURE TO ORGANIC SOLVENTS HAS BEEN ASSOCIATED WITH VARIOUS NEUROTOXIC EFFECTS INCLUDING PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. SYMPTOMS INCLUDE LOSS OF MEMORY, LOSS OF INTELLECTUAL ABILITY AND LOSS OF COORDINATION.

INGESTION:

ACUTE – CAN RESULT IN IRRITATION OF THE DIGESTIVE TRACT. SYMPTOMS CAN INCLUDE SORE THROAT, ABDOMINAL PAIN, NAUSEA, VOMITING AND DIARRHEA. VOMITING MAY CAUSE ASPIRATION OF SOLVENT RESULTING IN CHEMICAL PNEUMONITIS.

CHRONIC – ND

CONDITIONS AGGRAVATED BY EXPOSURE: SKIN DISORDERS AND ALLERGIES.

ACUTE TOXICITY: NO DATA ON THE PRODUCT ITSELF.

ACUTE ORAL TOXICITY- COMPONENTS

ACETONE - NOT CLASSIFIED FOR ACUTE TOXICITY

XYLENE - LD50: 3523 MG/KG; SPECIES: RAT

ETHYL BENZENE - LD50: 3500 MG/KG; SPECIES: RAT

ACUTE DERMAL TOXICITY- COMPONENTS

ACETONE - NOT CLASSIFIED FOR ACUTE TOXICITY

XYLENE -LD50: >4300 MG/KG; SPECIES: RAT

ETHYL BENZENE - LD50: 17800 MG/KG; SPECIES: RAT

ACUTE INHALATION TOXICITY- COMPONENTS

ACETONE LC50: 76 MG/L

XYLENE LC50: >6350 PPM (OECD TEST GUIDLINE 403)

SKIN CORROSION/IRRITATION

SLIGHTLY IRRITATING, RABBIT, OECD TEST GUIDLINE 404

ECO CorFlex

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2 1 1

SERIOUS EYE DAMAGE/EYE IRRITATION

SEVERE IRRITANT, 20MG, RABBIT

SECTION XI: TOXICOLOGICAL INFORMATION (CONT'D)

SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE): CATEGORY 3 (IRRITATING TO RESPIRATORY SYSTEM)

SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE): CATEGORY 2

CARCINOGENIC DATA: THIS PRODUCT CONTAINS XYLENE, ETHYLBENZENE IN CONCENTRATIONS OF 0.1% OR GREATER. IARC HAS CLASSIFIED ETHYL BENZENE AS GROUP 2B (THE AGENT IS POSSIBLY CARCINOGENIC TO HUMANS). NTP LISTED CARCINOGEN.

TERATOGENICITY: YES

MUTAGENICITY: ND

EMBRYOTOXICITY: ND

SYNERGISTIC MATERIAL: ND

SECTION XII: ECOLOGICAL INFORMATION

TOXICITY

AQUATIC TOXICITY: NO DATA ON THE PRODUCT ITSELF. BASED ON THE COMPONENTS THE PRODUCT IS ACUTELY HARMFUL FOR AQUATIC ORGANISMS.

ACUTE TOXICITY TO FISH- COMPONENTS

ACETONE - LC50 (2 HRS): 7081 MG/L; SPECIES: FATHEAD MINNOW

XYLENE - LC50 (96 HRS): 9.6 MG/L; SPECIES: BLUEGILL

ETHYL BENZENE - LC50 (96 HRS): 11 MG/L; SPECIES: FATHEAD MINNOW

ACUTE TOXICITY TO AQUATIC INVERTEBRATES: COMPONENTS

ACETONE - EC50 (24 HRS): >100 MG/L; SPECIES: DAPHNIA MAGNA

XYLENE - ND

ETHYL BENZENE - EC50 (48 HRS): 4.4 MG/L; SPECIES: DAPHNIA MAGNA

ACUTE TOXICITY TO ALGAE/AQUATIC PLANTS: COMPONENTS

ACETONE ND

XYLENE ND

ETHYL BENZENE ND

TOXICITY TO BACTERIA: COMPONENTS

ACETONE ND

ECO CorFlex

Molecular Industrial Polymers

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2 1 1

XYLENE ND

ETHYL BENZENE ND

SECTION XII: ECOLOGICAL INFORMATION (CONT'D)

CHRONIC AQUATIC TOXICITY

CHRONIC TOXICITY TO AQUATIC INVERTEBRATES: LONG LASTING ADVERSE EFFECTS TO AQUATIC ORGANISMS.

PERSISTANCE AND DEGRADABILITY: BIODEGRADABILITY: NOT READILY BIODEGRADABLE (BY OECD CRITERIA)

BIOACCUMULATIVE POTENTIAL

BIOACCUMULATION: ND

PARTITION COEFFECIENT (N-OCTANOL/WATER(LOG P_{ow})): ND

MOBILITY IN SOIL: ND

SECTION XIII: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: INCINERATION IS PREFERED. THIS PRODUCT SHOULD NOT BE ALLOWED TO ENTER DRAINS, WATER COURSES OR THE SOIL. PLACE IN AN APPROPRIATE DISPOSAL FACILITY IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

SECTION XIV: TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME: UN1866, RESIN SOLUTION, FLAMMABLE, (CONTAINS ACETONE), 3, PG II

PACKING GROUP: II

DOT PRODUCT RQ LBS (KGS): NA

HAZARD LABEL: FLAMMABLE LIQUID

HAZARD PLACARD: FLAMMABLE LIQUID

IMO SHIPPING DATA: UN1866, RESIN SOLUTION, FLAMMABLE, (CONTAINS ACETONE), 3, PG II

ICAO/IATA SHIPPING DATA: UN1866, RESIN SOLUTION, FLAMMABLE, (CONTAINS ACETONE), 3, PG II

PASSENGER AIR MAX QUANTITY: 5L **PASSENGER PACKING INSTRUCTION:** 353

CARGO AIR- MAX QUANTITY: 60L **CARGO AIR INSTRUCTION NUMBER:** 364

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2 1 1

SECTION XV: REGULATORY INFORMATION

VOC: COMPONENT = 453 GMS/LITER; **AS APPLIED (PART OF A MULTI-COMPONENT SYSTEM)** = 504 G/L
TSCA (TOXIC SUBSTANCE CONTROL ACT): ALL COMPONENTS ARE LISTED IN THE TSCA CHEMICAL SUBSTANCE INVENTORY.

SECTION XV: REGULATORY INFORMATION (CONT'D)

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION AND LIABILITY ACT): REPORTABLE QUANTITY, XYLENE 100 LBS.

SARA TITLE III - SECTION 312 HAZARD CLASS: IMMEDIATE (ACUTE) HEALTH HAZARD, DELAYED HEALTH HAZARD; FIRE HAZARD.

SECTION 313 LISTED INGREDIENTS: XYLENE (CAS #001330-20-7), ETHYLBENZENE (CAS #000100-41-4)

CALIFORNIA PROPOSITION 65: THE BELOW LIST OF COMPOUNDS IS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM: CAS #001330-20-7, CAS #000100-41-4.

SECTION XVI: OTHER INFORMATION

ABBREVIATIONS & ACRONYMS:

ACGIH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS

OSHA - OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION (USA)

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

DISCLAIMER

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