

# ECO CorFlex

Molecular Industrial Polymers

## SAFETY DATA SHEET

**PRODUCT NAME:** LOPH-II – PART B ACTIVATOR (CLEAR) **HMIS RATINGS:** H F R  
**PRODUCT DESCRIPTION:** LOW-ODOR SLOW CLEAR (1A: 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 16, 2019
<b>INFORMATION PHONE #:</b>	1-866-406-2628	<b>NAME OF PREPARER:</b>	TECH. DEPT.

### SECTION II: HAZARDS IDENTIFICATION

**OSHA / HCS STATUS:** THIS MATERIAL IS CONSIDERED HAZARDOUS BY THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200).

**CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:**

SPECIFIC TARGET ORGAN TOXICITY, SINGLE EXPOSURE; RESPIRATORY TRACT IRRITATION (CATEGORY 3)

ACUTE INHALATION (VAPOR AND MIST)TOXICITY (CATEGORY 4)

RESPIRATORY SENSITIZATION ( CATEGORY 1)

SPECIFIC TARGET ORGAN TOXICITY, REPEATED EXPOSURE (INHALATION);LUNGS (CATEGORY 2)

SKIN SENSITIZATION (CATEGORY 1)

**PERCENTAGE OF MIXTURE CONSISTING OF INGREDIENTS OF UNKNOWN TOXICITY:** 100%

**HAZARD PICTOGRAMS:**

EXCLAMATION MARK (IRRITANT)

HEALTH HAZARD (HEALTH HAZARD)

**SIGNAL WORD.....: DANGER!**

**HAZARDOUS STATEMENTS:**

H317: MAY CAUSE AN ALLERGIC SKIN REACTION

H332: HARMFUL IF INHALED

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

H335: MAY CAUSE RESPIRATORY IRRITATION

H360: MAY DAMAGE FERTILITY OR THE UNBORN CHILD.

H373: MAY CAUSE DAMAGE TO LUNGS THROUGH PROLONGED OR REPEATED EXPOSURE.

**GENERAL PRECAUTIONARY STATEMENTS:**

**PREVENTION:**

P261: AVOID BREATHING DUST/FUME/GAS/MIST/VAPOURS/SPRAY.

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

P271: USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA.

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

P284: IN CASE OF INADEQUATE VENTILATION, WEAR RESPIRATORY PROTECTION.

#### RESPONSE:

P301 + P310 + 331: IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER/DOCTOR. DO NOT INDUCE VOMITING.

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

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

P305 + P351 + P338: IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING.

P308 + P313: IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/ ATTENTION.

P332 + P313: IF SKIN IRRITATION OCCURS: GET MEDICAL ADVICE/ATTENTION.

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

P362 + P364: TAKE OFF CONTAMINATED CLOTHING AND WASH IT BEFORE REUSE.

P370 + P378: IN CASE OF FIRE: USE DRY CHEMICAL, CO<sub>2</sub>, WATER FOG/MIST, OR FOAM TO EXTINGUISH.

#### STORAGE:

P233: KEEP CONTAINER TIGHTLY CLOSED.

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

P405: STORE LOCKED UP.

#### DISPOSAL:

P501: DISPOSE OF CONTENTS AND CONTAINER IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

#### SUPPLEMENTAL LABEL ELEMENTS:

WARNING! INDIVIDUALS WITH LUNG OR BREATHING PROBLEMS OR PRIOR REACTION TO ISOCYANATES MUST NOT BE EXPOSED TO VAPOR OR SPRAY MIST.

**HAZARDS NOT OTHERWISE CLASSIFIED:** A HISTORY OF ECZEMA OR RESPIRATORY ALLERGIES SUCH AS HAY FEVER, ARE POSSIBLE REASONS FOR EXCLUSION FROM ISOCYANATE WORK AREAS. APPLICANTS WITH A HISTORY OF PRIOR ISOCYANATE SENSITIZATION SHOULD BE EXCLUDED FROM FURTHER WORK WITH ISOCYANATES. A COMPREHENSIVE ANNUAL MEDICAL SURVEILLANCE PROGRAM SHOULD BE INSTITUTED FOR ALL EMPLOYEES WHO ARE POTENTIALLY EXPOSED TO DIISOCYANATES. ONCE A WORKER HAS BEEN DIAGNOSED AS SENSITIZED TO ANY ISOCYANATE, NO FURTHER EXPOSURE SHOULD BE PERMITTED.

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### SECTION III: COMPOSITION & INFORMATION ON INGREDIENTS

**SUBSTANCE / MIXTURE:** MIXTURE

**OTHER MEANS OF IDENTIFICATION (COMPOSITION):** NOT AVAILABLE

HAZARDOUS INGREDIENT	CAS #	% BY WEIGHT
HOMOPOLYMER OF HEXAMETHYLENE DIISOCYANATE	28182-81-2	77.0
DIPROPYLENE GLYCOL METHYL ETHER ACETATE	88917-22-0	18.0
PROPYLENE CARBONATE	108-32-7	5.0

THERE ARE NO ADDITIONAL INGREDIENTS PRESENT WHICH, WITHIN THE CURRENT KNOWLEDGE OF THE SUPPLIER AND IN THE CONCENTRATIONS APPLICABLE, ARE CLASSIFIED AS HAZARDOUS TO HEALTH OR THE ENVIRONMENT AND HENCE REQUIRE REPORTING IN THIS SECTION.

### SECTION IV: FIRST AID MEASURES

**EYE CONTACT:** IN CASE OF CONTACT, FLUSH EYES WITH PLENTY OF LUKEWARM WATER. USE FINGERS TO ENSURE THAT EYELIDS ARE SEPARATED AND THE EYE IS BEING IRRIGATED. REMOVE CONTACTS IF POSSIBLE. GET MEDICAL ATTENTION.

**INHALATION:** REMOVE TO FRESH AIR. IF NOT BREATHING, ADMINISTER CPR UNTIL HELP ARRIVES OR THE VICTIM STARTS TO BREATHE ON HIS OWN. IF BREATHING IS DIFFICULT, GIVE OXYGEN. SEEK MEDICAL ATTENTION IMMEDIATELY.

**SKIN CONTACT:** WASH AFFECTED AREAS WITH SOAP AND WATER. IMMEDIATELY REMOVE CONTAMINATED CLOTHING AND SHOES. GET MEDICAL ATTENTION.

**INGESTION:** IF SWALLOWED, DO NOT INDUCE VOMITING UNLESS DIRECTED TO BY MEDICAL PERSONNEL. GET MEDICAL ATTENTION.

**POTENTIAL HEALTH EFFECTS:** ISOCYANATE VAPORS OR MIST AT CONCENTRATIONS ABOVE THE EXPOSURE LIMITS OR GUIDELINES CAN IRRITATE (BURNING SENSATION) THE MUCOUS MEMBRANES IN THE RESPIRATORY TRACT (NOSE, THROAT, LUNGS) WITH SYMPTOMS OF RUNNY NOSE, SORE THROAT, COUGHING, CHEST DISCOMFORT, SHORTNESS OF BREATH AND REDUCED LUNG FUNCTION (BREATHING DIFFICULTY). PERSONS WITH A PREEXISTING, NONSPECIFIC BRONCHIAL HYPERACTIVITY CAN RESPOND TO CONCENTRATIONS BELOW THE EXPOSURE LIMITS OR GUIDELINES WITH SIMILAR SYMPTOMS AS WELL AS ASTHMA ATTACK OR ASTHMA-LIKE SYMPTOMS. EXPOSURE ABOVE THE EXPOSURE LIMITS OR GUIDELINES MAY LEAD TO BRONCHITIS, BRONCHIAL SPASM AND PULMONARY EDEMA (FLUID IN LUNGS). CHEMICAL OR HYPERSENSITIVITY PNEUMONITIS, WITH FLU-LIKE SYMPTOMS (E.G. FEVER, CHILLS), HAS ALSO BEEN REPORTED. THESE SYMPTOMS CAN BE DELAYED UP TO SEVERAL HOURS AFTER EXPOSURE. THESE EFFECTS ARE USUALLY REVERSIBLE. MAY CAUSE SKIN IRRITATION WITH SYMPTOMS OF REDDENING, ITCHING AND SWELLING. CAN CAUSE SENSITIZATION. PERSONS PREVIOUSLY SENSITIZED CAN EXPERIENCE ALLERGIC SKIN REACTION WITH SYMPTOMS OF REDDENING, ITCHING, SWELLING AND RASH. CURED MATERIAL IS DIFFICULT TO REMOVE.

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#### SECTION IV: FIRST AID MEASURES (CONT'D)

MAY CAUSE EYE IRRITATION WITH SYMPTOMS OF REDDENING, TEARING, STINGING, AND SWELLING. MAY CAUSE TEMPORARY CORNEAL INJURY. VAPOR OR AEROSOL MAY CAUSE IRRITATION WITH SYMPTOMS OF BURNING AND TEARING. MAY CAUSE IRRITATION OF THE DIGESTIVE TRACT; SYMPTOMS MAY INCLUDE ABDOMINAL PAIN NAUSEA, VOMITING, AND DIARRHEA.

**OVER-EXPOSURE SIGNS / SYMPTOMS:** SYMPTOMS OF OVER EXPOSURE CONSIST OF RUNNING NOSE, SORE THROAT, COUGHING, CHEST DISCOMFORT, SHORTNESS OF BREATH AND DIFFICULTY BREATHING. REDDENING, ITCHING, SWELLING, AND RASH ON SKIN. EYES MAY SHOW SYMPTOMS OF REDDENING, TEARING, STINGING, AND SWELLING. SYMPTOMS OF DIGESTIVE IRRITATION INCLUDE ABDOMINAL PAIN, NAUSEA, VOMITING, AND DIARRHEA.

**NOTE TO PHYSICIAN:** TREAT SYMPTOMATICALLY.

#### SECTION V: FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** DRY CHEMICAL, CO<sub>2</sub>, OR FOAM USE WATER SPRAY TO KEEP FIRE EXPOSED CONTAINERS COOL.

**UNSUITABLE EXTINGUISHING MEDIA:** WATER FULL JET

**HAZARDOUS COMBUSTION PRODUCTS:** CARBON OXIDES, DENSE BLACK SMOKE, HYDROGEN CYANIDE, ISOCYANATE, ISOCYANIC ACID, OTHER UNDETERMINED COMPOUNDS.

**OTHER CONSIDERATIONS:** CLOSED CONTAINER MAY FORCIBLY RUPTURE UNDER EXTREME HEAT OR WHEN CONTENTS ARE CONTAMINATED WITH WATER. USE COLD-WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS TO MINIMIZE THE RISK OF RUPTURE. LARGE FIRES CAN BE EXTINGUISHED WITH LARGE VOLUMES OF WATER APPLIED FROM A SAFE DISTANCE, SINCE REACTION BETWEEN WATER AND HOT DIISOCYANATE CAN BE VIGOROUS.

**FIRE FIGHTING PROCEDURES:** AVOID CONTACT WITH PRODUCT. DURING A FIRE, ISOCYANATE VAPORS AND OTHER IRRITATING, HIGHLY TOXIC GASES MAY BE GENERATED BY THERMAL DECOMPOSITION OR COMBUSTION. EXPOSURE TO HEATED DIISOCYANATE CAN BE EXTREMELY DANGEROUS.

**FIRE FIGHTING EQUIPMENT:** FIREFIGHTERS SHOULD WEAR NFPA COMPLIANT STRUCTURAL FIREFIGHTING PROTECTIVE EQUIPMENT, INCLUDING SELF-CONTAINED BREATHING APPARATUS AND NFPA COMPLIANT HELMET, HOOD, BOOTS, AND GLOVES. DECONTAMINATE EQUIPMENT AND PROTECTIVE CLOTHING PRIOR TO REUSE.

#### SECTION VI: ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTION:** WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. EVACUATE SURROUNDING AREAS AND ISOLATE THE AREA. KEEP UNNECESSARY AND UNPROTECTED PERSONNEL FROM ENTERING. PROVIDE ADEQUATE VENTILATION. WEAR APPROPRIATE RESPIRATOR WHEN VENTILATION IS INADEQUATE.

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### SECTION VI: ACCIDENTAL RELEASE MEASURES (CONT'D)

**ENVIRONMENTAL PRECAUTIONS:** AVOID DISPERSAL OF SPILLED MATERIAL AND RUNOFF AND CONTACT WITH SOIL, WATERWAYS, DRAINS AND SEWERS. INFORM THE RELEVANT AUTHORITIES IF THE PRODUCT HAS CAUSED ENVIRONMENTAL POLLUTION (SEWERS, WATERWAYS, SOIL OR AIR).

**METHODS FOR CONTAINMENT & CLEAN-UP:** ABSORB WITH LIQUID-BINDING MATERIAL (SAND, DIATOMITE, ACID BINDERS, UNIVERSAL BINDERS, SAWDUST). SHOVEL INTO SUITABLE RECEPTACLES. DECONTAMINATE THE SPILL SURFACE USING A NEUTRALIZATION SOLUTION (90% FANTASTIC HEAVY DUTY ALL PURPOSE CLEANER AND 10% HOUSEHOLD AMMONIA) SCRUB THE SURFACE WITH BROOM OR BRUSH. WAIT AT LEAST 15 MINUTES AFTER APPLYING THE DECONTAMINATE SOLUTION AND COVER THE AREA WITH ABSORBENT AND SHOVEL INTO RECEPTACLE. KEEP THE LID OF RECEPTACLE LOOSE TO ALLOW CARBON DIOXIDE AND HEAT TO ESCAPE. DISPOSE OF CONTAINER AFTER 72 HOURS IN ACCORDANCE WITH EXISTING FEDERAL, STATE AND LOCAL REGULATIONS.

### SECTION VII: HANDLING AND STORAGE

**PROTECTIVE MEASURES FOR HANDLING:** INDIVIDUALS WITH LUNG OR BREATHING PROBLEMS OR PRIOR ALLERGIC REACTIONS TO ISOCYANATES MUST NOT BE EXPOSED TO VAPOR OR SPRAY MIST. DO NOT BREATHE VAPORS, MIST, OR DUST. USE ADEQUATE VENTILATION. FLAMMABLE LIQUID. AVOID HEAT, SPARKS AND OPEN FLAMES. PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. AVOID BREATHING VAPOR AND CONTACT WITH EYES, SKIN AND CLOTHING. DO NOT LEAVE CONTAINERS OPEN. AVOID REPEATED OR PROLONGED CONTACT WITH SKIN. EMPTY CONTAINERS RETAIN RESIDUE. OBSERVE ALL SAFETY PRECAUTIONS. DO NOT REUSE CONTAINER.

**ADVICE ON GENERAL OCCUPATIONAL HYGIENE:** WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. USE GENERAL INDUSTRIAL HYGIENE PRACTICE. WASH HANDS AFTER HANDLING PAINT/COATING AND BEFORE EATING, DRINKING OR SMOKING. READ AND UNDERSTAND ENTIRE SDS BEFORE HANDLING PRODUCT.

**CONDITIONS FOR SAFE STORAGE (INCLUDING ANY INCOMPATIBILITIES):** STORE IN AREA DESIGNATED FOR STORAGE OF FLAMMABLE LIQUID (SEE NFPA 30 AND OSHA 29 CFR 1910.106) IN ACCORDANCE WITH LOCAL REGULATIONS AWAY FROM SOURCES OF HEAT, IGNITION, AND DIRECT SUNLIGHT. STORE IN THE ORIGINAL CONTAINER. KEEP IN A DRY, WELL-VENTILATED AREA, AND AWAY FROM INCOMPATIBLE MATERIALS (SEE SECTION 10). KEEP CONTAINER TIGHTLY CLOSED AND SEALED UNTIL READY FOR USE. CONTAINERS THAT HAVE BEEN OPENED MUST HAVE A DRY NITROGEN BLANKET APPLIED BEFORE RESEALING. DO NOT STORE IN UNLABELED, UNAPPROVED OR REACTIVE CONTAINERS. USE APPROPRIATE CONTAINMENT TO AVOID ENVIRONMENTAL CONTAMINATION.

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**SECTION VIII: EXPOSURE CONTROL / PERSONAL PROTECTION**

**AIRBORNE EXPOSURE LIMITS:**

COMPONENT	CAS #	% BY WEIGHT
<b>HOMOPOLYMER OF HEXAMETHYLENE DIISOCYANATE</b> ACGIH (TWA/STEL) : 0.02 MG/M3 OSHA (TWA/STEL) : N/E	28182-81-2	77.0
<b>DIPROPYLENE GLYCOL METHYL ETHER ACETATE</b> ACGIH (TWA/STEL) : 150PPM TWA OSHA (TWA/STEL) : 150PPM TWA	88917-22-0	18.0
<b>PROPYLENE CARBONATE</b> ACGIH (TWA/STEL): 200 PPM TWA OSHA (TWA/STEL) : 200 PPM TWA	108-32-7	5.0

**ENGINEERING CONTROLS:** USE ONLY WITH ADEQUATE VENTILATION. DO NOT BREATHE VAPORS. GENERAL DILUTION AND LOCAL EXHAUST AS NECESSARY TO CONTROL AIRBORNE VAPORS, MISTS, DUSTS, AND THERMAL DECOMPOSITION PRODUCTS BELOW APPROPRIATE AIRBORNE CONCENTRATION STANDARDS AND GUIDELINES. ENSURE FRESH AIR ENTRY DURING APPLICATION AND DRYING. USE AN EXPLOSION PROOF FAN TO ENSURE ADEQUATE VENTILATION ESPECIALLY IN CONFINED WORK AREA. CURING OVENS MUST BE VENTILATED TO PREVENT THE BUILD-UP OF EXPLOSIVE ATMOSPHERES AND TO PREVENT OFF GASES FROM ENTERING THE WORK PLACE.

**PERSONAL PROTECTIVE EQUIPMENT**

**RESPIRATORY PROTECTION:** IF YOU EXPERIENCE EYE WATERING, HEADACHE OR DIZZINESS OR IF AIR MONITORING DEMONSTRATES VAPOR/MIST LEVELS ARE ABOVE APPLICABLE LIMITS, WEAR AN APPROPRIATE, PROPERLY FITTED RESPIRATOR (NIOSH APPROVED) DURING AND AFTER APPLICATION. FOLLOW RESPIRATOR MANUFACTURER'S DIRECTIONS FOR RESPIRATOR USE.

**SKIN & BODY PROTECTION:** IMPERVIOUS CHEMICAL RESISTANT GLOVES. LONG SLEEVED CLOTHING OR PROTECTIVE SLEEVES. REMOVE AND WASH CONTAMINATED CLOTHING BEFORE RE-USE.

**EYE & FACE PROTECTION:** SPLASH PROOF CHEMICAL RESISTANT SAFETY GLASSES. WEAR IN COMBINATION WITH A FULL FACE SHIELD IF A SPLASH HAZARD EXISTS.

**WORK HYGIENIC PRACTICES:** WASH HANDS, FOREARMS AND FACE THOROUGHLY AFTER HANDLING CHEMICAL PRODUCTS, BEFORE EATING AND DRINKING, SMOKING OR USING THE LAVATORY AND AT THE END OF THE WORKING PERIOD. CONTAMINATED WORK CLOTHING SHOULD NOT BE ALLOWED WORN OUT OF THE WORKPLACE. WASH CONTAMINATED CLOTHING BEFORE REUSING. ENSURE THAT EYEWASH STATIONS AND SAFETY SHOWERS ARE CLOSE TO THE WORKSTATION LOCATION.

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### SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** LIQUID

**COLOR:** CLEAR TO SLIGHTLY YELLOW

**ODOR:** SLIGHT

**ODOR THRESHOLD:** NOT AVAILABLE

**PH:** NOT APPLICABLE

**MELTING POINT:** NOT AVAILABLE

**FREEZING POINT:** NOT AVAILABLE

**INITIAL BOILING POINT:** DECOMPOSES

**FLASH POINT:** >212°F

**EVAPORATION RATE:** NOT AVAILABLE

**EXPLOSION LIMITS:**

**LOWER & UPPER EXPLOSIVE LIMIT:** NOT AVAILABLE

**VAPOR PRESSURE:** NOT AVAILABLE

**VAPOR DENSITY (AIR = 1):** NOT AVAILABLE

**SPECIFIC GRAVITY (G/CC):** 1.09

**DENSITY (LB/GAL):** 9.1 LB/GL

**SOLUBILITY IN WATER:** REACTS

**PARTITION COEFFICIENT (N-OCTANOL/WATER):** NOT AVAILABLE

**VISCOSITY:** 56-60 KREBS UNIT

**AUTO-IGNITION TEMPERATURE:** NOT AVAILABLE

**DECOMPOSITION TEMPERATURE:** NOT AVAILABLE

**ACTUAL V.O.C.:** 1.639 LB/GL; **(METRIC):** 196 G/L

**REGULATORY V.O.C.:** 1.717 LB/GL; **(METRIC):** 206 G/L

**OTHER PHYSICAL PROPERTIES:** NOT AVAILABLE

### SECTION X: STABILITY & REACTIVITY DATA

**CHEMICAL STABILITY:** STABLE UNDER NORMAL CONDITIONS

**POSSIBLE HAZARDOUS REACTIONS:** CONTACT WITH MOISTURE, OTHER MATERIALS THAT REACT WITH ISOCYANATES, OR TEMPERATURES ABOVE 350°F MAY CAUSE POLYMERIZATION.

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### SECTION X: STABILITY & REACTIVITY DATA (CONT'D)

**CONDITIONS TO AVOID:** HEAT, FLAMES, AND SPARKS. PROTECT FROM FREEZING.

**INCOMPATIBLE MATERIALS:** WATER, AMINES, STRONG BASES, ALCOHOLS, COPPER ALLOYS.

**HAZARDOUS DECOMPOSITION:** CARBON OXIDES, DENSE BLACK SMOKE, HYDROGEN CYANIDE, ISOCYANATE, ISOCYANIC ACID, OTHER UNDETERMINED COMPOUNDS.

### SECTION XI: TOXICOLOGICAL INFORMATION

**ACUTE TOXICITY:** THE ACUTE EFFECTS OF THIS PRODUCT AS A WHOLE HAVE NOT BEEN TESTED.

**DATA ON INDIVIDUAL COMPONENTS ARE BELOW:**

**HOMOPOLYMER OF HEXAMETHYLENE DIISOCYANATE (28182-81-2)**

LD50 ORAL RAT, FEMALE > 2,500 MG/KG

LC50 INHALATION RAT, FEMALE 0.390 - 0.543 MG/L (4 HR.)

LD50 DERMAL RABBIT >2,000 MG/KG

**PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE (108-65-6)**

LD50 ORAL RAT FEMALE 8,532 MG/KG

LC50 INHALATION RAT NO DATA AVAILABLE

LD50 DERMAL RAT MALE AND FEMALE 2,000 MG/KG

**CARCINOGENICITY:** NO SUSPECTED CARCINOGENS PRESENT AT >0.1%

**OSHA:** NO COMPONENT OF THIS PRODUCT PRESENT AT LEVEL GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY OSHA.

**IARC:** NO COMPONENT OF THIS PRODUCT PRESENT AT LEVEL GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY IARC.

**NTP:** NO COMPONENT OF THIS PRODUCT PRESENT AT LEVEL GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY NTP.

**EFFECTS OF ACUTE EXPOSURE FROM EYE CONTACT:** MAY CAUSE SLIGHT SKIN AND EYE IRRITATION. SKIN SENSITIZER.

**EFFECTS OF ACUTE EXPOSURE FROM SKIN CONTACT:** NO DATA AVAILABLE.

**EFFECTS OF ACUTE EXPOSURE FROM INGESTION:** NO DATA AVAILABLE

**EFFECTS OF ACUTE EXPOSURE FROM INHALATION:** RESPIRATORY SENSITIZER. MAY CAUSE RESPIRATORY IRRITATION.

**EFFECTS OF CHRONIC EXPOSURE:** THERE IS NO INFORMATION ON THE CHRONIC EFFECTS OF REPEATED OR PROLONGED EXPOSURE.

**PRIMARY ROUTE(S) OF ENTRY:** EYE CONTACT, SKIN CONTACT, INGESTION, INHALATION



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**SECTION XII: ECOLOGICAL INFORMATION**

**ENVIRONMENTAL TOXICITY:** ECOLOGICAL EVALUATION OF THIS MATERIAL HAS NOT BEEN PERFORMED; HOWEVER, DO NOT ALLOW THE PRODUCT TO BE RELEASED TO THE ENVIRONMENT WITHOUT GOVERNMENTAL APPROVAL/ PERMITS. DISCHARGE INTO THE ENVIRONMENT MUST BE AVOIDED.

**SECTION XIII: DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** THE GENERATION OF WASTE SHOULD BE AVOIDED OR MINIMIZED WHENEVER POSSIBLE. DISPOSAL OF THIS PRODUCT SHOULD ALWAYS COMPLY WITH THE REQUIREMENTS OF ENVIRONMENTAL PROTECTION AND WASTE DISPOSAL LEGISLATION AND ANY REGIONAL LOCAL AUTHORITY REQUIREMENTS. DISPOSE OF SURPLUS AND NON-RECYCLABLE PRODUCTS VIA A LICENSED WASTE DISPOSAL CONTRACTOR. THE MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF IN A SAFE WAY. CARE SHOULD BE TAKEN WHEN HANDLING EMPTIED CONTAINERS THAT HAVE NOT BEEN CLEANED OR RINSED OUT. EMPTY CONTAINERS MAY RETAIN SOME PRODUCT RESIDUES. AVOID DISPERSAL OF SPILLED MATERIAL AND RUNOFF AND CONTACT WITH SOIL, WATERWAYS, DRAINS, AND SEWERS.

**SECTION XIV: TRANSPORT INFORMATION**

**TRANSPORTATION INFORMATION DISCLAIMER:** DETERMINATION OF PROPER SHIPPING IDENTIFICATION IS DEPENDENT UPON THE FORM, QUANTITY AND PACKAGING. THE PERSON OFFERING A HAZARDOUS MATERIAL FOR TRANSPORT HAS THE SOLE RESPONSIBILITY TO PROPERLY PREPARE THE SHIPPING PAPER AND PACKAGING FOR TRANSPORT. PEOPLE LOADING AND UNLOADING MUST BE TRAINED ON ALL OF THE RISKS DERIVING FROM HANDLING THIS PRODUCT.

**SECTION XV: REGULATORY INFORMATION**

**U.S. FEDERAL REGULATIONS :**

**CLEAN AIR ACT SECTION 112(B) HAZARDOUS AIR POLLUTANTS (HAP'S):** NO COMPONENTS PRESENT AT LEVELS HIGHER THEN 1% LISTED ON HAPS LIST OF CHEMICALS

**CERCLA: SARA HAZARD CATEGORY:** THIS PRODUCT HAS BEEN REVIEWED ACCORDING TO THE EPA "HAZARD CATEGORIES" PROMULGATED UNDER SECTION 311 AND 312 OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 (SARA TITLE III) AND IS CONSIDERED, UNDER APPLICABLE DEFINITIONS, TO MEET THE FOLLOWING CATEGORIES: ACUTE HEALTH HAZARD. CHRONIC HEALTH HAZARD.

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### SECTION XV: REGULATORY INFORMATION (CONT'D)

**EPA SECTION 313:** THIS MATERIAL DOES NOT CONTAIN ANY CHEMICAL COMPONENT WITH KNOWN CAS NUMBERS THAT EXCEED THE THRESHOLD (DE MIMIS) REPORTING LEVELS ESTABLISHED BY SARA TITLE III, SECTION 313.

**US STATE REGULATIONS:**

**CALIFORNIA PROPOSITION 65:** THIS PRODUCT DOES NOT CONTAIN A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER OR BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

### SECTION XVI: OTHER INFORMATION

ACA - AMERICAN COATINGS ASSOCIATION

ACGIH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS

ATE - ACUTE TOXICITY ESTIMATE

BCF - BIOCONCENTRATION FACTOR

CAS - CHEMICAL ABSTRACTS SERVICE (DIVISION OF THE AMERICAN CHEMICAL SOCIETY)

CLP - REGULATION (EC) NO 1272/2008 ON CLASSIFICATION, LABELING AND PACKAGING OF SUBSTANCES AND MIXTURES

DOT - US DEPARTMENT OF TRANSPORTATION

EC - EUROPEAN COMMUNITY

EEC - EUROPEAN ECONOMIC COMMUNITY

EINECS- EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES

EN - EUROPEAN STANDARD

EPA - ENVIRONMENTAL PROTECTION AGENCY (USA)

EU - EUROPEAN UNION

GHS - GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELING OF CHEMICALS

HMIS - HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (USA)

HSDB - HAZARDOUS SUBSTANCES DATA BANK

IARC - INTERNATIONAL ASSOCIATION OF RADIO CARDIOLOGISTS

IATA - INTERNATIONAL AIR TRANSPORT ASSOCIATION

IBC - INTERMEDIATE BULK CONTAINER

ICAO - INTERNATIONAL CIVIL AVIATION ORGANIZATION

IMDG - INTERNATIONAL MARITIME CODE FOR DANGEROUS GOODS

LC - LETHAL CONCENTRATION

**SAFETY DATA SHEET**

**PRODUCT NAME: LOPH-II – PART B ACTIVATOR (CLEAR)**

**HMIS RATINGS: H F R**

**PRODUCT DESCRIPTION: LOW-ODOR SLOW CLEAR (1A: 1B)**

**2 1 1**

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

LD - LETHAL DOSE

LOLI - LIST OF LISTS

NA - NOT APPLICABLE

ND - NO DATA OR INFORMATION AVAILABLE

NE - NOT ESTABLISHED

NFPA - NATIONAL FIRE PROTECTION ASSOCIATION (USA)

NTP - NATIONAL TOXICOLOGY PROGRAM (USA)

OECD - ORGANIZATION FOR ECONOMIC CO-OPERATION AND DEVELOPMENT

OEL - OCCUPATIONAL EXPOSURE LIMITS

OSHA - OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION (USA)

RID - REGULATIONS CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY RAIL

RTECS - REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES

RTK - RIGHT-TO-KNOW LAWS

SDS - SAFETY DATA SHEET

STEL - SHORT-TERM EXPOSURE LIMIT

TWA - TIME WEIGHTED AVERAGE

UN - UNITED NATIONS

WEL - WORKPLACE EXPOSURE LIMIT

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