

ECO CorFlex

Molecular Industrial Polymers

SAFETY DATA SHEET

PRODUCT NAME: **HYDRO POLYMER II MAXBOND (PART A)** **HMIS RATINGS:** **H F PH**

PRODUCT DESCRIPTION: **PIGMENTED (4A: 1B)**

3 1 0

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:	JUL 04, 2025
INFORMATION PHONE #:	1-866-406-2628	NAME OF PREPARER:	TECH. DEPT.

SECTION II: HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE: NFPA 704 DIAMOND

CLASSIFICATION

ACUTE TOXICITY (ORAL) CATEGORY 4

SKIN CORROSION/IRRITATION CATEGORY 1B

SENSITISATION (SKIN) CATEGORY 1,

SERIOUS EYE DAMAGE/EYE IRRITATION CATEGORY 1

LABEL ELEMENTS

HAZARD PICTOGRAM(S)



SIGNAL WORD: DANGER

HAZARD STATEMENT(S)

H302 HARMFUL IF SWALLOWED.

H314 CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.

H317 MAY CAUSE AN ALLERGIC SKIN REACTION.

HAZARD(S) NOT OTHERWISE CLASSIFIED: NOT APPLICABLE

PRECAUTIONARY STATEMENT(S) GENERAL

P101 IF MEDICAL ADVICE IS NEEDED, HAVE PRODUCT CONTAINER OR LABEL AT HAND.

P102 KEEP OUT OF REACH OF CHILDREN.

P103 READ LABEL BEFORE USE.

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SECTION II: HAZARDS IDENTIFICATION (CONT'D)

PRECAUTIONARY STATEMENT(S) PREVENTION

P260 DO NOT BREATHE MIST/VAPOURS/SPRAY.

P264 WASH ALL EXPOSED EXTERNAL BODY AREAS THOROUGHLY AFTER HANDLING.

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

P272 CONTAMINATED WORK CLOTHING MUST NOT BE ALLOWED OUT OF THE WORKPLACE.

P280 WEAR PROTECTIVE GLOVES, PROTECTIVE CLOTHING, EYE PROTECTION AND FACE PROTECTION.

PRECAUTIONARY STATEMENT(S) RESPONSE

P301+P330+P331

IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE VOMITING & IF MORE THAN 15 MINS FROM DOCTOR, INDUCE VOMITING (IF CONSCIOUS).

P303+P361+P353 IF ON SKIN (OR HAIR): 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. CONTINUE RINSING.

P310 IMMEDIATELY CALL A POISON CENTER/DOCTOR/PHYSICIAN/FIRST AID.

P363 WASH CONTAMINATED CLOTHING BEFORE REUSE.

P333+P313 IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION.

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

P301+P312 IF SWALLOWED: CALL A POISON CENTER/DOCTOR/PHYSICIAN/FIRST AIDER/IF YOU FEEL UNWELL.

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

PRECAUTIONARY STATEMENT(S) STORAGE

P405 STORE LOCKED UP.

PRECAUTIONARY STATEMENT(S) DISPOSAL

P501 DISPOSE OF CONTENTS/CONTAINER TO AUTHORISED HAZARDOUS OR SPECIAL WASTE COLLECTION POINT IN ACCORDANCE WITH ANY LOCAL REGULATION.

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SECTION III: COMPOSITION & INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
10563-29-8	10-30	<u>dimethyldipropylenetriamine</u>
2807-30-9	5-10	<u>2-propoxyethanol</u>

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION IV: FIRST AID MEASURES

EYE CONTACT

IF THIS PRODUCT COMES IN CONTACT WITH THE EYES:

IMMEDIATELY HOLD EYELIDS APART AND FLUSH THE EYE CONTINUOUSLY WITH RUNNING WATER.

ENSURE COMPLETE IRRIGATION OF THE EYE BY KEEPING EYELIDS APART AND AWAY FROM EYE AND MOVING THE EYELIDS BY OCCASIONALLY LIFTING THE UPPER AND LOWER LIDS.

CONTINUE FLUSHING UNTIL ADVISED TO STOP BY THE POISONS INFORMATION CENTRE OR A DOCTOR, OR FOR AT LEAST 15 MINUTES.

TRANSPORT TO HOSPITAL OR DOCTOR WITHOUT DELAY.

REMOVAL OF CONTACT LENSES AFTER AN EYE INJURY SHOULD ONLY BE UNDERTAKEN BY SKILLED PERSONNEL.

SKIN CONTACT

IF SKIN OR HAIR CONTACT OCCURS:

IMMEDIATELY FLUSH BODY AND CLOTHES WITH LARGE AMOUNTS OF WATER, USING SAFETY SHOWER IF AVAILABLE.

QUICKLY REMOVE ALL CONTAMINATED CLOTHING, INCLUDING FOOTWEAR.

WASH SKIN AND HAIR WITH RUNNING WATER. CONTINUE FLUSHING WITH WATER UNTIL ADVISED TO STOP BY THE POISONS INFORMATION CENTRE.

TRANSPORT TO HOSPITAL, OR DOCTOR.

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SECTION IV: FIRST AID MEASURES (CONT'D)

INHALATION

IF FUMES OR COMBUSTION PRODUCTS ARE INHALED REMOVE FROM CONTAMINATED AREA.

LAY PATIENT DOWN. KEEP WARM AND RESTED.

PROSTHESES SUCH AS FALSE TEETH, WHICH MAY BLOCK AIRWAY, SHOULD BE REMOVED, WHERE POSSIBLE, PRIOR TO INITIATING FIRST AID PROCEDURES.

APPLY ARTIFICIAL RESPIRATION IF NOT BREATHING, PREFERABLY WITH A DEMAND VALVE RESUSCITATOR, BAG-VALVE MASK DEVICE, OR POCKET MASK AS TRAINED. PERFORM CPR IF NECESSARY.

TRANSPORT TO HOSPITAL, OR DOCTOR.

INGESTION

FOR ADVICE, CONTACT A POISONS INFORMATION CENTRE OR A DOCTOR AT ONCE.

URGENT HOSPITAL TREATMENT IS LIKELY TO BE NEEDED.

IF SWALLOWED DO **NOT** INDUCE VOMITING.

IF VOMITING OCCURS, LEAN PATIENT FORWARD OR PLACE ON LEFT SIDE (HEAD-DOWN POSITION, IF POSSIBLE) TO MAINTAIN OPEN AIRWAY AND PREVENT ASPIRATION.

OBSERVE THE PATIENT CAREFULLY.

NEVER GIVE LIQUID TO A PERSON SHOWING SIGNS OF BEING SLEEPY OR WITH REDUCED AWARENESS; I.E. BECOMING UNCONSCIOUS.

GIVE WATER TO RINSE OUT MOUTH, THEN PROVIDE LIQUID SLOWLY AND AS MUCH AS CASUALTY CAN COMFORTABLY DRINK.

TRANSPORT TO HOSPITAL OR DOCTOR WITHOUT DELAY.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

SEE SECTION 11

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

FOR ACUTE OR SHORT-TERM REPEATED EXPOSURES TO HIGHLY ALKALINE MATERIALS:

RESPIRATORY STRESS IS UNCOMMON BUT PRESENT OCCASIONALLY BECAUSE OF SOFT TISSUE EDEMA.

UNLESS ENDOTRACHEAL INTUBATION CAN BE ACCOMPLISHED UNDER DIRECT VISION, CRICOTHYROIDOTOMY OR TRACHEOTOMY MAY BE NECESSARY.

OXYGEN IS GIVEN AS INDICATED.

THE PRESENCE OF SHOCK SUGGESTS PERFORATION AND MANDATES AN INTRAVENOUS LINE AND FLUID ADMINISTRATION.

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SECTION IV: FIRST AID MEASURES (CONT'D)

DAMAGE DUE TO ALKALINE CORROSIVES OCCURS BY LIQUEFACTION NECROSIS WHEREBY THE SAPONIFICATION OF FATS AND SOLUBILISATION OF PROTEINS ALLOW DEEP PENETRATION INTO THE TISSUE.

ALKALIS CONTINUE TO CAUSE DAMAGE AFTER EXPOSURE.

INGESTION:

MILK AND WATER ARE THE PREFERRED DILUENTS

NO MORE THAN 2 GLASSES OF WATER SHOULD BE GIVEN TO AN ADULT.

NEUTRALISING AGENTS SHOULD NEVER BE GIVEN SINCE EXOTHERMIC HEAT REACTION MAY COMPOUND INJURY.

* CATHARSIS AND EMESIS ARE ABSOLUTELY CONTRA-INDICATED.

* ACTIVATED CHARCOAL DOES NOT ABSORB ALKALI.

* GASTRIC LAVAGE SHOULD NOT BE USED.

SUPPORTIVE CARE INVOLVES THE FOLLOWING:

WITHHOLD ORAL FEEDINGS INITIALLY.

IF ENDOSCOPY CONFIRMS TRANSMUCOSAL INJURY START STEROIDS ONLY WITHIN THE FIRST 48 HOURS.

CAREFULLY EVALUATE THE AMOUNT OF TISSUE NECROSIS BEFORE ASSESSING THE NEED FOR SURGICAL INTERVENTION.

PATIENTS SHOULD BE INSTRUCTED TO SEEK MEDICAL ATTENTION WHENEVER THEY DEVELOP DIFFICULTY IN SWALLOWING (DYSPHAGIA).

SKIN AND EYE:

INJURY SHOULD BE IRRIGATED FOR 20-30 MINUTES.

EYE INJURIES REQUIRE SALINE. [ELLENHORN & BARCELOUX: MEDICAL TOXICOLOGY]

SECTION V: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

FOAM.

DRY CHEMICAL POWDER.

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SECTION V: FIRE FIGHTING MEASURES (CONT'D)

SPECIAL HAZARDS ARISING FROM THE SUBSTRATE OR MIXTURE

FIRE INCOMPATIBILITY

AVOID CONTAMINATION WITH OXIDISING AGENTS I.E. NITRATES, OXIDISING ACIDS, CHLORINE BLEACHES, POOL CHLORINE ETC. AS IGNITION MAY RESULT

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS

FIRE FIGHTING

ALERT FIRE BRIGADE AND TELL THEM LOCATION AND NATURE OF HAZARD.

WEAR FULL BODY PROTECTIVE CLOTHING WITH BREATHING APPARATUS.

FIRE/EXPLOSION HAZARD

COMBUSTIBLE.

SLIGHT FIRE HAZARD WHEN EXPOSED TO HEAT OR FLAME.

COMBUSTION PRODUCTS INCLUDE:

CARBON DIOXIDE (CO₂)

NITROGEN OXIDES (NO_x)

OTHER PYROLYSIS PRODUCTS TYPICAL OF BURNING ORGANIC MATERIAL.

MAY EMIT POISONOUS FUMES.

MAY EMIT CORROSIVE FUMES.

SECTION VI: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

SEE SECTION 8

ENVIRONMENTAL PRECAUTIONS

SEE SECTION 12

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP MINOR SPILLS

REMOVE ALL IGNITION SOURCES.

CLEAN UP ALL SPILLS IMMEDIATELY.

MAJOR SPILLS

MODERATE HAZARD.

CLEAR AREA OF PERSONNEL AND MOVE UPWIND.

PERSONAL PROTECTIVE EQUIPMENT ADVICE IS CONTAINED IN SECTION 8 OF THE SDS.

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SECTION VII: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

SAFE HANDLING

AVOID ALL PERSONAL CONTACT, INCLUDING INHALATION.

WEAR PROTECTIVE CLOTHING WHEN RISK OF EXPOSURE OCCURS.

DO NOT ALLOW CLOTHING WET WITH MATERIAL TO STAY IN CONTACT WITH SKIN

OTHER INFORMATION

STORE IN ORIGINAL CONTAINERS.

KEEP CONTAINERS SECURELY SEALED.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

SUITABLE CONTAINER

METAL CAN OR DRUM

PACKAGING AS RECOMMENDED BY MANUFACTURER.

CHECK ALL CONTAINERS ARE CLEARLY LABELLED AND FREE FROM LEAKS.

STORAGE INCOMPATIBILITY

AVOID STRONG ACIDS, ACID CHLORIDES, ACID ANHYDRIDES AND CHLOROFORMATES.

AVOID CONTACT WITH COPPER, ALUMINIUM AND THEIR ALLOYS.

AVOID REACTION WITH OXIDISING AGENTS



X — Must not be stored together

0 — May be stored together with specific preventions

— May be stored together

Note: Depending on other risk factors, compatibility assessment based on the table above may not be relevant to storage situations, particularly where large volumes of dangerous goods are stored and handled. Reference should be made to the Safety Data Sheets for each substance or article and risks assessed accordingly.

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SECTION VIII: EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL PARAMETERS

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA - NOT AVAILABLE

EMERGENCY LIMITS

Ingredient	TEEL-1	TEEL-2	TEEL-3
2-propoxyethanol	2.2 ppm	24 ppm	140 ppm

Ingredient	Original IDLH	Revised IDLH
dimethyldipropylenetriamine	Not Available	Not Available
2-propoxyethanol	Not Available	Not Available

Occupational Exposure Banding		
Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
dimethyldipropylenetriamine	D	> 0.1 to ≤ 1 ppm
2-propoxyethanol	E	≤ 0.1 ppm

Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health.	
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EXPOSURE CONTROLS

APPROPRIATE ENGINEERING CONTROLS

ENGINEERING CONTROLS ARE USED TO REMOVE A HAZARD OR PLACE A BARRIER BETWEEN THE WORKER AND THE HAZARD. WELL-DESIGNED ENGINEERING CONTROLS CAN BE HIGHLY EFFECTIVE IN PROTECTING WORKERS AND WILL TYPICALLY BE INDEPENDENT OF WORKER INTERACTIONS TO PROVIDE THIS HIGH LEVEL OF PROTECTION.

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT



EYE AND FACE PROTECTION

CHEMICAL GOGGLES.

FULL FACE SHIELD MAY BE REQUIRED FOR SUPPLEMENTARY BUT NEVER PRIMARY PROTECTION OF EYES.

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SECTION VIII: EXPOSURE CONTROLS / PERSONAL PROTECTION (CONT'D)

SKIN PROTECTION SEE HAND PROTECTION BELOW

HANDS/FEET PROTECTION

WEAR CHEMICAL PROTECTIVE GLOVES, E.G. PVC.

WEAR SAFETY FOOTWEAR OR SAFETY GUMBOOTS, E.G. RUBBER

WHEN HANDLING CORROSIVE LIQUIDS, WEAR TROUSERS OR OVERALLS OUTSIDE OF BOOTS, TO AVOID SPILLS ENTERING BOOTS.

NOTE: THE MATERIAL MAY PRODUCE SKIN SENSITISATION IN PREDISPOSED INDIVIDUALS. CARE MUST BE TAKEN, WHEN REMOVING GLOVES AND OTHER PROTECTIVE EQUIPMENT, TO AVOID ALL POSSIBLE SKIN CONTACT.

THE SELECTION OF SUITABLE GLOVES DOES NOT ONLY DEPEND ON THE MATERIAL, BUT ALSO ON FURTHER MARKS OF QUALITY WHICH VARY FROM MANUFACTURER TO MANUFACTURER. WHERE THE CHEMICAL IS A PREPARATION OF SEVERAL SUBSTANCES, THE RESISTANCE OF THE GLOVE MATERIAL CAN NOT BE CALCULATED IN ADVANCE AND HAS THEREFORE TO BE CHECKED PRIOR TO THE APPLICATION.

BODY PROTECTION - SEE OTHER PROTECTION BELOW

OTHER PROTECTION – OVERALLS, P.V.C APRON

RESPIRATORY PROTECTION

TYPE AK-P FILTER OF SUFFICIENT CAPACITY. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 OR NATIONAL EQUIVALENT)

CARTRIDGE RESPIRATORS SHOULD NEVER BE USED FOR EMERGENCY INGRESS OR IN AREAS OF UNKNOWN VAPOUR CONCENTRATIONS OR OXYGEN CONTENT.

THE WEARER MUST BE WARNED TO LEAVE THE CONTAMINATED AREA IMMEDIATELY ON DETECTING ANY ODOURS THROUGH THE RESPIRATOR. THE ODOUR MAY INDICATE THAT THE MASK IS NOT FUNCTIONING PROPERLY, THAT THE VAPOUR CONCENTRATION IS TOO HIGH, OR THAT THE MASK IS NOT PROPERLY FITTED.

BECAUSE OF THESE LIMITATIONS, ONLY RESTRICTED USE OF CARTRIDGE RESPIRATORS IS CONSIDERED APPROPRIATE.

CARTRIDGE PERFORMANCE IS AFFECTED BY HUMIDITY. CARTRIDGES SHOULD BE CHANGED AFTER 2 HR OF CONTINUOUS USE UNLESS IT IS DETERMINED THAT THE HUMIDITY IS LESS THAN 75%, IN WHICH CASE, CARTRIDGES CAN BE USED FOR 4 HR. USED CARTRIDGES SHOULD BE DISCARDED DAILY, REGARDLESS OF THE LENGTH OF TIME USED.

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SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Not Available		
Physical state	Liquid	Relative density (Water = 1)	8.58
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	>200	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available

Solubility in water	Immiscible	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	<50 when mixed as intended
Heat of Combustion (kJ/g)	Not Available	Ignition Distance (cm)	Not Available
Flame Height (cm)	Not Available	Flame Duration (s)	Not Available
Enclosed Space Ignition Time Equivalent (s/m3)	Not Available	Enclosed Space Ignition Deflagration Density (g/m3)	Not Available

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SECTION X: STABILITY & REACTIVITY DATA

Reactivity	See section 7
Chemical stability	▸ Unstable in the presence of incompatible materials. ▸ Product is considered stable.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION XI: TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

INHALED

THE MATERIAL IS NOT THOUGHT TO PRODUCE ADVERSE HEALTH EFFECTS FOLLOWING INHALATION (AS CLASSIFIED BY EC

DIRECTIVES USING ANIMAL MODELS). NEVERTHELESS, ADVERSE SYSTEMIC EFFECTS HAVE BEEN PRODUCED FOLLOWING EXPOSURE OF ANIMALS BY AT LEAST ONE OTHER ROUTE AND GOOD HYGIENE PRACTICE REQUIRES THAT EXPOSURE BE KEPT TO A MINIMUM AND THAT SUITABLE CONTROL MEASURES BE USED IN AN OCCUPATIONAL SETTING.

INHALATION OF AMINE VAPOURS MAY CAUSE IRRITATION OF THE MUCOUS MEMBRANE OF THE NOSE AND THROAT, AND LUNG IRRITATION WITH RESPIRATORY DISTRESS AND COUGH. SWELLING AND INFLAMMATION OF THE RESPIRATORY TRACT IS SEEN IN SERIOUS CASES; WITH HEADACHE, NAUSEA, FAINTNESS AND ANXIETY.

INHALATION OF EPOXY RESIN AMINE HARDENERS (INCLUDING POLYAMINES AND AMINE ADDUCTS) MAY PRODUCE BRONCHOSPASM AND COUGHING EPISODES LASTING SEVERAL DAYS AFTER CESSATION OF THE EXPOSURE. EVEN FAINT TRACES OF THESE VAPOURS MAY TRIGGER AN INTENSE REACTION IN INDIVIDUALS SHOWING 'AMINE ASTHMA'.

INHALATION HAZARD IS INCREASED AT HIGHER TEMPERATURES.

INHALATION OF AEROSOLS (MISTS, FUMES), GENERATED BY THE MATERIAL DURING THE COURSE OF NORMAL HANDLING, MAY BE DAMAGING TO THE HEALTH OF THE INDIVIDUAL.

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SECTION XI: TOXICOLOGICAL INFORMATION (CONT'D)

INGESTION

ACCIDENTAL INGESTION OF THE MATERIAL MAY BE HARMFUL; ANIMAL EXPERIMENTS INDICATE THAT INGESTION OF LESS THAN 150 GRAM MAY BE FATAL OR MAY PRODUCE SERIOUS DAMAGE TO THE HEALTH OF THE INDIVIDUAL.

THE MATERIAL CAN PRODUCE CHEMICAL BURNS WITHIN THE ORAL CAVITY AND GASTROINTESTINAL TRACT FOLLOWING INGESTION.

AMINES WITHOUT BENZENE RINGS WHEN SWALLOWED ARE ABSORBED THROUGHOUT THE GUT. CORROSIVE ACTION MAY CAUSE DAMAGE THROUGHOUT THE GASTROINTESTINAL TRACT.

INGESTION OF AMINE EPOXY-CURING AGENTS (HARDENERS) MAY CAUSE SEVERE ABDOMINAL PAIN, NAUSEA, VOMITING OR DIARRHOEA. THE VOMITUS MAY CONTAIN BLOOD AND MUCOUS.

SKIN CONTACT

SKIN CONTACT WITH THE MATERIAL MAY BE HARMFUL; SYSTEMIC EFFECTS MAY RESULT FOLLOWING ABSORPTION.

THE MATERIAL CAN PRODUCE CHEMICAL BURNS FOLLOWING DIRECT CONTACT WITH THE SKIN.

AMINE EPOXY-CURING AGENTS (HARDENERS) MAY PRODUCE PRIMARY SKIN IRRITATION AND SENSITISATION DERMATITIS IN PREDISPOSED INDIVIDUALS. CUTANEOUS REACTIONS INCLUDE ERYTHEMA, INTOLERABLE ITCHING AND SEVERE FACIAL SWELLING.

OPEN CUTS, ABRADED OR IRRITATED SKIN SHOULD NOT BE EXPOSED TO THIS MATERIAL

ENTRY INTO THE BLOOD-STREAM, THROUGH, FOR EXAMPLE, CUTS, ABRASIONS OR LESIONS, MAY PRODUCE SYSTEMIC INJURY WITH HARMFUL EFFECTS. EXAMINE THE SKIN PRIOR TO THE USE OF THE MATERIAL AND ENSURE THAT ANY EXTERNAL DAMAGE IS SUITABLY PROTECTED.

VOLATILE AMINE VAPOURS PRODUCE IRRITATION AND INFLAMMATION OF THE SKIN. DIRECT CONTACT CAN CAUSE BURNS.

EYE

THE MATERIAL CAN PRODUCE CHEMICAL BURNS TO THE EYE FOLLOWING DIRECT CONTACT. VAPOURS OR MISTS MAY BE EXTREMELY IRRITATING.

IF APPLIED TO THE EYES, THIS MATERIAL CAUSES SEVERE EYE DAMAGE.

VAPOURS OF VOLATILE AMINES IRRITATE THE EYES, CAUSING EXCESSIVE SECRETION OF TEARS, INFLAMMATION OF THE CONJUNCTIVA AND SLIGHT SWELLING OF THE CORNEA, RESULTING IN 'HALOS' AROUND LIGHTS. THIS EFFECT IS TEMPORARY, LASTING ONLY FOR A FEW HOURS.

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SECTION XI: TOXICOLOGICAL INFORMATION (CONT'D)

CHRONIC

REPEATED OR LONG-TERM OCCUPATIONAL EXPOSURE IS LIKELY TO PRODUCE CUMULATIVE HEALTH EFFECTS INVOLVING ORGANS OR BIOCHEMICAL SYSTEMS.

REPEATED OR PROLONGED EXPOSURE TO CORROSIVES MAY RESULT IN THE EROSION OF TEETH, INFLAMMATORY AND ULCERATIVE CHANGES IN THE MOUTH AND NECROSIS (RARELY) OF THE JAW. BRONCHIAL IRRITATION, WITH COUGH, AND FREQUENT ATTACKS OF BRONCHIAL PNEUMONIA MAY ENSUE.

SKIN CONTACT WITH THE MATERIAL IS MORE LIKELY TO CAUSE A SENSITISATION REACTION IN SOME PERSONS COMPARED TO THE GENERAL POPULATION.

AMINE EPOXY-CURING AGENTS (HARDENERS) MAY PRODUCE PRIMARY SKIN IRRITATION AND SENSITISATION DERMATITIS IN PREDISPOSED INDIVIDUALS. CUTANEOUS REACTIONS INCLUDE ERYTHEMA, INTOLERABLE ITCHING AND SEVERE FACIAL SWELLING.

Prime and Seal Epoxy 'A' Clear	TOXICITY	IRRITATION
	Not Available	Not Available
dimethyldipropylenetriamine	TOXICITY	IRRITATION
	Dermal (rabbit) LD50: 1300 mg/kg ^[2]	Eye: adverse effect observed (irritating) ^[1]
	Oral (Rat) LD50: 1545 mg/kg ^[1]	Skin: adverse effect observed (corrosive) ^[1]
2-propoxyethanol	TOXICITY	IRRITATION
	Dermal (rabbit) LD50: 960 mg/kg ^[2]	Eye (Rodent - rabbit): 100mg - Severe
	Inhalation (Rat) LC50: >2300 ppm4h ^[1]	Eye (Rodent - rabbit): 750ug/24H - Severe
	Oral (Rat) LD50: 3089 mg/kg ^[2]	Eye: adverse effect observed (irritating) ^[1]
		Skin (Rodent - guinea pig): 1mL/24H - Mild
		Skin (Rodent - rabbit): 500mg/24H - Mild
		Skin: adverse effect observed (irritating) ^[1]

Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

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SECTION XI: TOXICOLOGICAL INFORMATION (CONT'D)

DIMETHYLDIPROPYLENETRIAMINE

SKIN ALLERGY WAS OBSERVED IN GUINEA PIGS FOLLOWING REPEATED EXPOSURE. TESTS USING BACTERIA ** *HOECHST MSDS ** ARKEMA MSDS

THE MATERIAL MAY BE IRRITATING TO THE EYE, WITH PROLONGED CONTACT CAUSING INFLAMMATION. REPEATED OR PROLONGED EXPOSURE TO IRRITANTS MAY PRODUCE CONJUNCTIVITIS.

THE MATERIAL MAY PRODUCE RESPIRATORY TRACT IRRITATION, AND RESULT IN DAMAGE TO THE LUNG INCLUDING REDUCED LUNG FUNCTION.

OVEREXPOSURE TO MOST OF THESE MATERIALS MAY CAUSE ADVERSE HEALTH EFFECTS.

MANY AMINE-BASED COMPOUNDS CAN CAUSE RELEASE OF HISTAMINES, WHICH, IN TURN, CAN TRIGGER ALLERGIC AND OTHER PHYSIOLOGICAL EFFECTS, INCLUDING CONSTRICTION OF THE BRONCHI OR ASTHMA AND INFLAMMATION OF THE CAVITY OF THE NOSE. WHOLE-BODY SYMPTOMS INCLUDE HEADACHE, NAUSEA, FAINTNESS, ANXIETY, A DECREASE IN BLOOD PRESSURE, RAPID HEARTBEAT, ITCHING, REDDENING OF THE SKIN, URTICARIA (HIVES) AND SWELLING OF THE FACE, WHICH ARE USUALLY TRANSIENT.

THERE ARE GENERALLY FOUR ROUTES OF POSSIBLE OR POTENTIAL EXPOSURE: INHALATION, SKIN CONTACT, EYE CONTACT, AND SWALLOWING.

INHALATION: INHALING VAPOURS MAY RESULT IN MODERATE TO SEVERE IRRITATION OF THE TISSUES OF THE NOSE AND THROAT AND CAN IRRITATE THE LUNGS.

2-PROPOXYETHANOL

THERE HAVE BEEN NO SPECIFIC HUMAN STUDIES, BUT THE CONSISTENCY OF THE ANIMAL EXPERIMENTS EMPHASIZES THAT HUMAN EXPOSURE SHOULD BE DRAMATICALLY REDUCED.

THE MATERIAL MAY PRODUCE SEVERE IRRITATION TO THE EYE CAUSING PRONOUNCED INFLAMMATION.

REPEATED OR PROLONGED EXPOSURE TO IRRITANTS MAY PRODUCE CONJUNCTIVITIS.

FOR ETHYLENE GLYCOL MONOALKYL ETHERS AND THEIR ACETATES (EGMAES):

TYPICAL MEMBERS OF THIS CATEGORY ARE ETHYLENE GLYCOL PROPYLENE ETHER (EGPE), ETHYLENE GLYCOLBUTYL ETHER (EGBE) AND ETHYLENE GLYCOL HEXYL ETHER (EGHE) AND THEIR ACETATES.

EGMAES ARE SUBSTRATES FOR ALCOHOL DEHYDROGENASE ISOZYME ADH-3, WHICH CATALYZES THE CONVERSION OF THEIR TERMINAL ALCOHOLS TO ALDEHYDES (WHICH ARE TRANSIENT METABOLITES). FURTHER, RAPID CONVERSION OF THE ALDEHYDES BY ALDEHYDE DEHYDROGENASE PRODUCES ALKOXYACETIC ACIDS, WHICH ARE THE PREDOMINANT URINARY METABOLITES OF MONO SUBSTITUTED GLYCOL ETHERS.

ECO CorFlex

Molecular Industrial Polymers

SAFETY DATA SHEET

PRODUCT NAME: HYDRO POLYMER II MAXBOND (PART A) **HMIS RATINGS:** H F PH

PRODUCT DESCRIPTION: PIGMENTED (4A: 1B)

3 1 0

SECTION XI: TOXICOLOGICAL INFORMATION (CONT'D)

ACUTE TOXICITY: ORAL LD50 VALUES IN RATS FOR ALL CATEGORY MEMBERS RANGE FROM 739 (EGHE) TO 3089 MG/KG BW (EGPE), WITH VALUES INCREASING WITH DECREASING MOLECULAR WEIGHT.

PRIME AND SEAL EPOXY 'A' CLEAR & DIMETHYLDIPROPYLENETRIAMINE

THE FOLLOWING INFORMATION REFERS TO CONTACT ALLERGENS AS A GROUP AND MAY NOT BE SPECIFIC TO THIS PRODUCT.

CONTACT ALLERGIES QUICKLY MANIFEST THEMSELVES AS CONTACT ECZEMA, MORE RARELY AS URTICARIA OR QUINCKE'S OEDEMA.

ASTHMA-LIKE SYMPTOMS MAY CONTINUE FOR MONTHS OR EVEN YEARS AFTER EXPOSURE TO THE MATERIAL ENDS. THIS MAY BE DUE TO A NON-ALLERGIC CONDITION KNOWN AS REACTIVE AIRWAYS DYSFUNCTION SYNDROME (RADS) WHICH CAN OCCUR AFTER EXPOSURE TO HIGH LEVELS OF HIGHLY IRRITATING COMPOUND.

DIMETHYLDIPROPYLENETRIAMINE

& 2-PROPOXYETHANOL

THE MATERIAL MAY CAUSE SKIN IRRITATION AFTER PROLONGED OR REPEATED EXPOSURE AND MAY PRODUCE ON CONTACT SKIN REDNESS, SWELLING, THE PRODUCTION OF VESICLES, SCALING AND THICKENING OF THE SKIN.

Acute Toxicity	✓	Carcinogenicity	✗
Skin Irritation/Corrosion	✓	Reproductivity	✗
Serious Eye Damage/Irritation	✓	STOT - Single Exposure	✗
Respiratory or Skin sensitisation	✓	STOT - Repeated Exposure	✗
Mutagenicity	✗	Aspiration Hazard	✗

Legend: ✗ – Data either not available or does not fill the criteria for classification
✓ – Data available to make classification

ECO CorFlex

Molecular Industrial Polymers

SAFETY DATA SHEET

PRODUCT NAME: HYDRO POLYMER II MAXBOND (PART A) **HMS RATINGS:** H F PH

PRODUCT DESCRIPTION: PIGMENTED (4A: 1B)

3 1 0

SECTION XII: ECOLOGICAL INFORMATION

Toxicity					
Prime and Seal Epoxy 'A' Clear	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
dimethyldipropylenetriamine	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	7.3mg/l	2
	EC10(ECx)	72h	Algae or other aquatic plants	1.9mg/l	2
	EC50	48h	Crustacea	9.22mg/l	2
	LC50	96h	Fish	99mg/l	Not Available
2-propoxyethanol	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50	72h	Algae or other aquatic plants	>100mg/l	2
	LC50	96h	Fish	>91.3mg/l	Not Available
	NOEC(ECx)	72h	Algae or other aquatic plants	>=100mg/l	2
Legend: Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data					

FOR ETHELENE GLYCOL MONOALKYL ETHERS AND THEIR ACETATES:

LOG BCF: 0.463 TO 0.732;

LC50 : 94 TO > 5000 MG/L. (AQUATIC SPECIES).

DO NOT DISCHARGE INTO SEWER OR WATERWAYS.

Persistence and degradability		
Ingredient	Persistence: Water/Soil	Persistence: Air
dimethyldipropylenetriamine	HIGH	HIGH
2-propoxyethanol	LOW	LOW

Bioaccumulative potential	
Ingredient	Bioaccumulation
dimethyldipropylenetriamine	LOW (LogKOW = -0.4731)
2-propoxyethanol	LOW (LogKOW = 0.0755)

ECO CorFlex

Molecular Industrial Polymers

SAFETY DATA SHEET

PRODUCT NAME: **HYDRO POLYMER II MAXBOND (PART A)** **HMIS RATINGS:** **H F PH**

PRODUCT DESCRIPTION: **PIGMENTED (4A: 1B)**

3 1 0

SECTION XII: ECOLOGICAL INFORMATION (CONT'D)

Mobility in soil	
Ingredient	Mobility
dimethyldipropylenetriamine	LOW (Log KOC = 479.2)
2-propoxyethanol	HIGH (Log KOC = 1)

SECTION XIII: DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

PRODUCT / PACKAGING DISPOSAL

CONTAINERS MAY STILL PRESENT A CHEMICAL HAZARD/ DANGER WHEN EMPTY.

RETURN TO SUPPLIER FOR REUSE/ RECYCLING IF POSSIBLE.

LEGISLATION ADDRESSING WASTE DISPOSAL REQUIREMENTS MAY DIFFER BY COUNTRY, STATE AND/ OR TERRITORY. EACH USER MUST REFER TO LAWS OPERATING IN THEIR AREA.

DO NOT ALLOW WASH WATER FROM CLEANING OR PROCESS EQUIPMENT TO ENTER DRAINS.

IT MAY BE NECESSARY TO COLLECT ALL WASH WATER FOR TREATMENT BEFORE DISPOSAL.

RECYCLE WHEREVER POSSIBLE OR CONSULT MANUFACTURER FOR RECYCLING OPTIONS.

CONSULT STATE LAND WASTE AUTHORITY FOR DISPOSAL.

SECTION XIV: TRANSPORT INFORMATION

LABELS REQUIRED

MARINE POLLUTANT NO

LAND TRANSPORT (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

AIR TRANSPORT (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

SEA TRANSPORT (IMDG-CODE / GGVSEE): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.7.1. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL AND THE IBC CODE

NOT APPLICABLE

ECO CorFlex

Molecular Industrial Polymers

SAFETY DATA SHEET

PRODUCT NAME: **HYDRO POLYMER II MAXBOND (PART A)** **HMIS RATINGS:** **H F PH**

PRODUCT DESCRIPTION: **PIGMENTED (4A: 1B)**

3 1 0

SECTION XIV: TRANSPORT INFORMATION (CONT'D)

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
dimethyldipropylenetriamine	Not Available
2-propoxyethanol	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
dimethyldipropylenetriamine	Not Available
2-propoxyethanol	Not Available

SECTION XV: OTHER REGULATORY INFORMATION

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS / LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

DIMETHYLDIPROPYLENETRIAMINE IS FOUND ON THE FOLLOWING REGULATORY LISTS

US TOXIC SUBSTANCES CONTROL ACT (TSCA) - CHEMICAL SUBSTANCE INVENTORY

2-PROPOXYETHANOL IS FOUND ON THE FOLLOWING REGULATORY LISTS

US - CALIFORNIA HAZARDOUS AIR POLLUTANTS IDENTIFIED AS TOXIC AIR CONTAMINANTS

US - PENNSYLVANIA - HAZARDOUS SUBSTANCE LIST

US CLEAN AIR ACT - HAZARDOUS AIR POLLUTANTS

US DOE TEMPORARY EMERGENCY EXPOSURE LIMITS (TEELS)

US EPCRA SECTION 313 CHEMICAL LIST

US NEW YORK CITY COMMUNITY RIGHT-TO-KNOW: LIST OF HAZARDOUS SUBSTANCES

US TOXIC SUBSTANCES CONTROL ACT (TSCA) - CHEMICAL SUBSTANCE INVENTORY

ADDITIONAL REGULATORY INFORMATION

NOT APPLICABLE

ECO CorFlex

Molecular Industrial Polymers

SAFETY DATA SHEET

PRODUCT NAME: HYDRO POLYMER II MAXBOND (PART A) **HMIS RATINGS:** H F PH

PRODUCT DESCRIPTION: PIGMENTED (4A: 1B)

3 1 0

SECTION XV: OTHER REGULATORY INFORMATION (CONT'D)

FEDERAL REGULATIONS

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA)

SECTION 311/312 HAZARD CATEGORIES

Flammable (Gases, Aerosols, Liquids, or Solids)	No
Gas under pressure	No
Explosive	No
Self-heating	No
Pyrophoric (Liquid or Solid)	No
Pyrophoric Gas	No
Corrosive to metal	No
Oxidizer (Liquid, Solid or Gas)	No
Organic Peroxide	No
Self-reactive	No
In contact with water emits flammable gas	No
Combustible Dust	No
Carcinogenicity	No
Acute toxicity (any route of exposure)	Yes
Reproductive toxicity	No
Skin Corrosion or Irritation	Yes
Respiratory or Skin Sensitization	Yes
Serious eye damage or eye irritation	Yes
Specific target organ toxicity (single or repeated exposure)	No
Aspiration Hazard	No
Germ cell mutagenicity	No
Simple Asphyxiant	No
Hazards Not Otherwise Classified	No

ECO CorFlex

Molecular Industrial Polymers

SAFETY DATA SHEET

PRODUCT NAME: HYDRO POLYMER II MAXBOND (PART A) **HMIS RATINGS: H F PH**

PRODUCT DESCRIPTION: PIGMENTED (4A: 1B)

3 1 0

SECTION XV: OTHER REGULATORY INFORMATION (CONT'D)

US. EPA CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES (40 CFR 302.4)

NONE REPORTED

US. EPCRA SECTION 313 TOXIC RELEASE INVENTORY (TRI) (40 CFR 372)

THIS PRODUCT CONTAINS THE FOLLOWING EPCRA SECTION 313 CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW-ACT OF 1986 (40 CFR 372):

CAS No	%[weight]	Name
2807-30-9	5-10	2-propoxyethanol
<i>This information must be included in all SDSs that are copied and distributed for this material.</i>		

ADDITIONAL FEDERAL REGULATORY INFORMATION

NOT APPLICABLE

STATE REGULATIONS

US. CALIFORNIA PROPOSITION 65

NONE REPORTED

ADDITIONAL STATE REGULATORY INFORMATION

NOT APPLICABLE

NATIONAL INVENTORY STATUS

National Inventory	Status
Australia - AIIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (dimethyldipropylenetriamine; 2-propoxyethanol)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes

ECO CorFlex

Molecular Industrial Polymers

SAFETY DATA SHEET

PRODUCT NAME: **HYDRO POLYMER II MAXBOND (PART A)** **HMIS RATINGS:** **H F PH**

PRODUCT DESCRIPTION: **PIGMENTED (4A: 1B)**

3 1 0

SECTION XV: OTHER REGULATORY INFORMATION (CONT'D)

NATIONAL INVENTORY STATUS (CONT'D)

USA - TSCA	All chemical substances in this product have been designated as TSCA Inventory 'Active'
Taiwan - TCSI	Yes
Mexico - INSQ	No (dimethyldipropylenetriamine; 2-propoxyethanol)
Vietnam - NCI	Yes
Russia - FBEPH	Yes
Legend:	<i>Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.</i>

SECTION XVI: OTHER INFORMATION

ABBREVIATIONS & ACRONYMS:

PC—TWA: PERMISSIBLE CONCENTRATION-TIME WEIGHTED AVERAGE

PC—STEL: PERMISSIBLE CONCENTRATION-SHORT TERM EXPOSURE LIMIT

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

ACGIH: AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS

STEL: SHORT TERM EXPOSURE LIMIT

TEEL: TEMPORARY EMERGENCY EXPOSURE LIMIT。

IDLH: IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONCENTRATIONS

ES: EXPOSURE STANDARD

OSF: ODOUR SAFETY FACTOR

NOAEL: NO OBSERVED ADVERSE EFFECT LEVEL

LOAEL: LOWEST OBSERVED ADVERSE EFFECT LEVEL

TLV: THRESHOLD LIMIT VALUE

LOD: LIMIT OF DETECTION

OTV: ODOUR THRESHOLD VALUE

BCF: BIOCONCENTRATION FACTORS

BEI: BIOLOGICAL EXPOSURE INDEX

DNEL: DERIVED NO-EFFECT LEVEL

PNEC: PREDICTED NO-EFFECT CONCENTRATION

ECO CorFlex

Molecular Industrial Polymers

SAFETY DATA SHEET

PRODUCT NAME: HYDRO POLYMER II MAXBOND (PART A) **HMIS RATINGS:** H F PH

PRODUCT DESCRIPTION: PIGMENTED (4A: 1B)

3 1 0

SECTION XVI: OTHER INFORMATION (CONT'D)

AIIC: AUSTRALIAN INVENTORY OF INDUSTRIAL CHEMICALS

DSL: DOMESTIC SUBSTANCES LIST

NDSL: NON-DOMESTIC SUBSTANCES LIST

IECSC: INVENTORY OF EXISTING CHEMICAL SUBSTANCE IN CHINA

EINECS: EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES

ELINCS: EUROPEAN LIST OF NOTIFIED CHEMICAL SUBSTANCES

NLP: NO-LONGER POLYMERS

ENCS: EXISTING AND NEW CHEMICAL SUBSTANCES INVENTORY

KECI: KOREA EXISTING CHEMICALS INVENTORY

NZIOC: NEW ZEALAND INVENTORY OF CHEMICALS

PICCS: PHILIPPINE INVENTORY OF CHEMICALS AND CHEMICAL SUBSTANCES

TSCA: TOXIC SUBSTANCES CONTROL ACT

TCSI: TAIWAN CHEMICAL SUBSTANCE INVENTORY

INSQ: INVENTARIO NACIONAL DE SUSTANCIAS QUÍMICAS

NCI: NATIONAL CHEMICAL INVENTORY

FBEPH: RUSSIAN REGISTER OF POTENTIALLY HAZARDOUS CHEMICAL AND BIOLOGICAL SUBSTANCES

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