

ECO CorFlex

Molecular Industrial Polymers

SAFETY DATA SHEET

PRODUCT NAME: ECO-PATCH (PART B)

HMIS RATINGS: H F PH

PRODUCT DESCRIPTION: CONCRETE PATCH SYSTEM

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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 16, 2023
INFORMATION PHONE #:	1-866-406-2628	NAME OF PREPARER:	TECH. DEPT.

SECTION II: HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

- ACUTE TOX. • 4
- SKIN IRRIT. • 2
- SKIN SENS. • 1B
- EYE IRRIT. • 2
- ACUTE TOX. • 4
- RESP. SENS. • 1
- STOT SE • 3
- CARC. • 2
- STOT RE • 2

GHS HAZARDS

- H315 • CAUSES SKIN IRRITATION
- H317 • MAY CAUSE AN ALLERGIC SKIN REACTION
- H319 • CAUSES SERIOUS EYE IRRITATION
- H332 • HARMFUL IF INHALED
- H334 • MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OF BREATHING DIFFICULTIES IF INHALED
- H335 • MAY CAUSE RESPIRATORY IRRITATION
- H351 • SUSPECTED OF CAUSING CANCER
- H373 • MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE: RESPIRATORY SYSTEM, INHALATION

GHS PRECAUTIONS

- P260 • DO NOT BREATHE DUST/FUME/GAS/MIST/VAPOURS/SPRAY.
- P280 • WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION.

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0 0 0

SECTION II: HAZARDS IDENTIFICATION (CONT'D)

P285 • IN CASE OF INADEQUATE VENTILATION WEAR RESPIRATORY PROTECTION.

P302+P352 • IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER.

P304+P340 • IF INHALED: REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING.

P309+P311 • IF EXPOSED OR IF YOU FEEL UNWELL: CALL A POISON CENTER OR DOCTOR/PHYSICIAN.

HAZARD PICTOGRAMS



SIGNAL WORD: DANGER

SECTION III: COMPOSITION & INFORMATION ON INGREDIENTS

Name	EC-Nr.	CAS-Nr.	REACH Reg Nr.	Content (%)
Proprietary Isocyanate Resin (#1) ¹	Proprietary	Proprietary	Proprietary	>60
Proprietary Diluent (#1)	Proprietary	Proprietary	Proprietary	>10
Proprietary Isocyanate Resin (#2) ²	Proprietary	Proprietary	Proprietary	≤10
Proprietary Diluent (#2)	Proprietary	Proprietary	Proprietary	≤10

1 – Contains <25% Proprietary Isocyanate Monomer.

4 – Contains cca. 10% Proprietary Isocyanate Monomer.

SECTION IV: FIRST AID MEASURES

GENERAL ADVICE • SOILED, FAIRLY SOAKED CLOTHING AND SHOES MUST BE IMMEDIATELY REMOVED.

IN CASE OF INHALATION • IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION IMMEDIATELY.

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0 0 0

SECTION IV: FIRST AID MEASURES (CONT'D)

IN CASE OF SKIN CONTACT • IN THE EVENT OF CONTACT WITH THE SKIN, PREFERABLY WASH ALTERNATELY WITH A CLEANSER BASED ON POLYETHYLENE GLYCOL AND WITH PLENTY OF WARM WATER AND SOAP. CONSULT A DOCTOR IN THE EVENT OF A SKIN REACTION. WASH THE LESS CLOTHING BEFORE REUSE. CLEAN SHOES THOROUGHLY BEFORE REUSE.

IN CASE OF EYE CONTACT • HOLD THE EYES OPEN AND RINSE WITH WATER FOR A SUFFICIENTLY LONG PERIOD OF TIME (AT LEAST 10 MINUTES). GET MEDICAL ATTENTION IMMEDIATELY.

IN CASE OF INGESTION • DO NOT INDUCE THE PATIENT TO VOMIT, MEDICAL ADVICE IS REQUIRED. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. PROVIDED THE PATIENT IS CONSCIOUS, WASH OUT MOUTH WITH WATER.

INFORMATION TO PHYSICIAN • THE PRODUCT IRRITATES THE RESPIRATORY TRACT AND MAY TRIGGER SENSITISATION OF THE SKIN AND RESPIRATORY TRACT. TREATMENT OF ACUTE IRRITATION OR BRONCHIAL CONSTRICTION IS PRIMARILY SYMPTOMATIC. FOLLOWING SEVERE EXPOSURE, THE PATIENT SHOULD BE KEPT UNDER MEDICAL REVIEW FOR AT LEAST 48 HOURS.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED • HEADACHE, NAUSEA, SHORTNESS OF BREATH, SORE THROAT, REDNESS ON THE SKIN. REPEATED OR PROLONGED CONTACT MAY CAUSE SKIN SENSITIZATION. REPEATED OR PROLONGED INHALATION EXPOSURE MAY CAUSE ASTHMA.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED • DEPENDING ON THE DEGREE OF EXPOSURE, PERIODIC MEDICAL EXAMINATION IS SUGGESTED.

SECTION V: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING MEDIA • FOAM, CO₂ OR DRY POWDER. WATER SPRAY MAY BE USED IF NO OTHER AVAILABLE AND THEN IN COPIOUS QUANTITIES.

UNSUITABLE EXTINGUISHING MEDIA • HIGH VOLUME WATER JET.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE • CARBON DIOXIDE, CARBON MONOXIDE, HYDROGEN CYANIDE, NITROGEN OXIDES, ISOCYANATE. THE SUBSTANCES/GROUPS OF SUBSTANCES MENTIONED CAN BE RELEASED IN CASE OF FIRE.

ADVICE FOR FIREFIGHTER • REACTION BETWEEN WATER AND HOT ISOCYANATE MAY BE VIGOROUS. PREVENT WASHINGS FROM ENTERING WATER COURSES, KEEP FIRE EXPOSED CONTAINERS COOL BY SPRAYING WITH WATER. • SPECIAL PROTECTIVE EQUIPMENT: FIRE-FIGHTERS SHOULD WEAR APPROPRIATE PROTECTIVE EQUIPMENT AND SELF-CONTAINED BREATHING APPARATUS (SCBA) WITH A FULL FACE-PIECE OPERATED IN POSITIVE PRESSURE MODE. SAFETY BOOTS, GLOVES, SAFETY HELMET AND PROTECTIVE CLOTHING SHOULD BE WORN.

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0 0 0

SECTION V: FIRE FIGHTING MEASURES (CONT'D)

• **FURTHER INFORMATION:** IN THE EVENT OF FIRE AND/OR EXPLOSION DO NOT BREATHE FUMES. FIRE IN VICINITY POSES RISK OF PRESSURE BUILD-UP AND RUPTURE. CONTAINERS AT RISK FROM FIRE SHOULD BE COOLED WITH WATER AND, IF POSSIBLE, REMOVED FROM THE DANGER AREA. DUE TO REACTION WITH WATER PRODUCING CO₂ GAS, A HAZARDOUS BUILD-UP OF PRESSURE COULD RESULT IF CONTAMINATED CONTAINERS ARE RE-SEALED. CONTAINERS MAY BURST IF OVERHEATED.

SECTION VI: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES • IMMEDIATELY CONTACT EMERGENCY PERSONNEL. EVACUATE THE AREA. KEEP UPWIND TO AVOID INHALATION OF VAPOURS. CLEAN-UP SHOULD BE PERFORMED BY TRAINED PERSONNEL ONLY.

FOR NON-EMERGENCY PERSONNEL • REMOVE NOT AFFECTED PEOPLE. INFORM THE RELEVANT EMERGENCY SERVICES AND AUTHORITIES.

FOR EMERGENCY RESPONDERS • PEOPLE DEALING WITH MAJOR SPILLAGES SHOULD WEAR FULL PROTECTIVE CLOTHING INCLUDING RESPIRATORY PROTECTION. USE SUITABLE PROTECTIVE EQUIPMENT.

ENVIRONMENTAL PRECAUTIONS • DO NOT ALLOW CONTAMINATED EXTINGUISHING WATER TO ENTER THE SOIL, GROUND-WATER OR SURFACE WATERS. AVOID DISPERSAL OF SPILT MATERIAL AND RUNOFF AND CONTACT WITH DRAINS AND SEWERS.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP • ABSORB SPILLAGES ONTO SAND, EARTH OR ANY SUITABLE ADSORBENT MATERIAL. LEAVE TO REACT FOR AT LEAST 30 MINUTES. DO NOT ABSORB ONTO SAWDUST OR OTHER COMBUSTIBLE MATERIALS. CONTAMINATED ADSORBENT MATERIAL SHALL BE DISPOSED ACCORDING TO SECTION 13. WASH THE SPILLAGE AREA WITH WATER.

REFERENCE TO OTHER SECTIONS • INFORMATION REGARDING EXPOSURE CONTROLS/PERSONAL PROTECTION AND DISPOSAL CONSIDERATIONS CAN BE FOUND IN SECTIONS 8 AND 13.

SECTION VII: HANDLING AND STORAGE

PROTECTIVE MEASURES • PROVIDE SUFFICIENT AIR EXCHANGE AND/OR EXHAUST IN WORK ROOMS. IN ALL WORKPLACES OF THE PLANT WHERE HIGH CONCENTRATIONS OF ISOCYANATE AEROSOLS AND/OR VAPOURS MAY BE GENERATED, APPROPRIATELY LOCATED EXHAUST VENTILATION MUST BE PROVIDED IN ORDER TO PREVENT OCCUPATIONAL EXPOSURE LIMITS FROM BEING EXCEEDED. THE AIR SHOULD BE DRAWN AWAY FROM THE PERSONNEL HANDLING THE PRODUCT. THE EFFICIENCY OF THE VENTILATION SYSTEM MUST BE MONITORED REGULARLY BECAUSE OF THE POSSIBILITY OF BLOCKAGE. ATMOSPHERIC CONCENTRATIONS SHOULD BE MINIMISED AND KEPT AS LOW AS REASONABLY PRACTICABLE BELOW THE OCCUPATIONAL EXPOSURE LIMIT.

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0 0 0

SECTION VII: HANDLING AND STORAGE (CONT'D)

ADVICE ON GENERAL OCCUPATIONAL HYGIENE • NO EATING, DRINKING, SMOKING OR TOBACCO USE AT THE PLACE OF WORK. CONTACT WITH SKIN AND EYES AND INHALATION OF VAPOURS MUST BE AVOIDED UNDER ALL CIRCUMSTANCES. KEEP EQUIPMENT CLEAN. A BASIC ESSENTIAL IN SAMPLING, HANDLING AND STORAGE IS THE PREVENTION OF CONTACT WITH WATER. KEEP STOCKS OF DECONTAMINANT READILY AVAILABLE.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES • STORE IN ACCORDANCE WITH LOCAL REGULATIONS. STORE IN ORIGINAL CONTAINER PROTECTED FROM DIRECT SUNLIGHT IN A DRY, COOL AND WELL-VENTILATED AREA, AWAY FROM INCOMPATIBLE MATERIALS AND FOOD AND DRINK. KEEP CONTAINER TIGHTLY CLOSED AND SEALED UNTIL READY FOR USE. CONTAINERS THAT HAVE BEEN OPENED MUST BE CAREFULLY RESEALED AND KEPT UPRIGHT TO PREVENT LEAKAGE. DO NOT STORE IN UNLABELLED CONTAINERS. USE APPROPRIATE CONTAINMENT TO AVOID ENVIRONMENTAL CONTAMINATION. SUITABLE CONTAINERS: STEEL, STAINLESS STEEL. UNSUITABLE CONTAINERS: COPPER, COPPER ALLOY AND GALVANISED SURFACES.

SPECIFIC END USE(S) • FOR THE RELEVANT IDENTIFIED USE(S) LISTED IN SECTION 1 THE ADVICE MENTIONED IN THIS SECTION 7 IS TO BE OBSERVED.

SECTION VIII: EXPOSURE CONTROL / PERSONAL PROTECTION

CONTROL PARAMETERS • A WORKPLACE EXPOSURE LEVEL (WEL) OF 0.02MG/M³ FOR TOTAL ISOCYANATES (AS NCO) AS AN 8 HOUR TWA, AND A SHORT TERM WEL (15 MIN) OF 0.07 MG/M³ HAVE BEEN ASSIGNED IN THE UNITED KINGDOM. A BMGV FOR ISOCYANATES, BASED ON THE MEASUREMENT OF URINARY DIAMINES, HAS BEEN SET AT 1 QMOL DIAMINE/MOL CREATININE. DNEL/PNEC-VALUES

THE RISK CHARACTERIZATION OF PROPRIETARY ISOCYANATE POLYMER IS THE FOLLOWING:

WORKERS • ACUTE/SHORT-TERM EXPOSURE- SYSTEMIC EFFECTS (DERMAL): DNEL = 50 MG/KG BW/DAY • ACUTE/SHORT-TERM EXPOSURE- SYSTEMIC EFFECTS (INHALATION): DNEL = 0.1 MG/M³ • ACUTE/SHORT-TERM EXPOSURE- LOCAL EFFECTS (DERMAL): DNEL = 28.7 MG/CM²

ACUTE/SHORT-TERM EXPOSURELOCAL EFFECTS (INHALATION): • DNEL = 0.1 MG/M³

LONG-TERM EXPOSURE -SYSTEMIC EFFECTS (INHALATION): • DNEL = 0.05 MG/M³

LONG-TERM EXPOSURE - SYSTEMIC EFFECTS (DERMAL): • NOT APPLICABLE.

LONG-TERM EXPOSURE – LOCAL EFFECTS (INHALATION): • DNEL = 0.05 MG/M³

LONG-TERM EXPOSURE – LOCAL EFFECTS (DERMAL): • NOT APPLICABLE.

PNEC SEDIMENT • AS PROPRIETARY ISOCYANATE RESIN (“PIR”) IS A REACTANT WITH WATER, ACCESS OF WATER TO PIR AND VICE VERSA IS STRICTLY CONTROLLED. FURTHERMORE, PIR POLYMERIZES IN THE PRESENCE OF WATER AND THUS EXPOSURE OF PIR TO SEDIMENT IS HIGHLY LIKELY TO BE NEGLIGIBLE. THEREFORE, PNEC SEDIMENT CANNOT BE DERIVED FOR PIR.

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0 0 0

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

PNEC SOIL • 1 MG/KG SOIL DW (DRY WEIGHT)

PNEC ORAL • THERE ARE NO DATA ON EFFECTS OF ORAL PROPRIETARY ISOCYANATE RESIN (PIR) TO BIRDS. EXPOSURE TO BIRDS IS NOT EXPECTED AND DATA FROM EXPERIMENTAL ANIMALS SHOW PIR TO BE OF LOW ORAL TOXICITY.

EXPOSURE CONTROLS

RESPIRATORY PROTECTION • RESPIRATORY PROTECTION IN CASE OF VAPOUR/AEROSOL RELEASE. COMBINATION FILTER FOR GASES/VAPOURS OF ORGANIC, INORGANIC, ACID INORGANIC PARTICLES (F. E. EN 14387 TYPE ABEK) SHALL BE USED.

HAND PROTECTION • CHEMICAL RESISTANT PROTECTIVE GLOVES (EN 374). • SUITABLE MATERIALS: ALSO WITH PROLONGED, DIRECT CONTACT (RECOMMENDED: PROTECTIVE INDEX 6, CORRESPONDING > 480 MINUTES OF PERMEATION TIME ACCORDING TO EN 374): • BUTYL RUBBER (BUTYL) - 0.7 MM COATING THICKNESS • NITRILE RUBBER (NBR) - 0.4 MM COATING THICKNESS • CHLOROPRENE RUBBER (CR) - 0.5 MM COATING THICKNESS • UNSUITABLE MATERIALS • POLYVINYLCHLORIDE (PVC) - 0.7 MM COATING THICKNESS • POLYETHYLENE-LAMINATE (PE LAMINATE) - CA. 0.1 MM COATING THICKNESS.

EYE PROTECTION • SAFETY GLASSES WITH SIDE-SHIELDS (FRAME GOGGLES) (E.G. EN 166).

BODY PROTECTION • SAFETY SHOES (E.G. ACCORDING TO EN 20346).

GENERAL SAFETY AND HYGIENE MEASURES • DO NOT BREATHE VAPOUR/SPRAY. WITH PRODUCTS FRESHLY MANUFACTURED FROM ISOCYANATES, BODY PROTECTION AND CHEMICAL RESISTANT PROTECTIVE GLOVES IS RECOMMENDED. WEARING OF CLOSED WORK CLOTHING IS REQUIRED ADDITIONALLY TO THE STATED PERSONAL PROTECTION EQUIPMENT. NO EATING, DRINKING, SMOKING OR TOBACCO USE AT THE PLACE OF WORK. TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. HANDS AND/OR FACE SHOULD BE WASHED BEFORE BREAKS AND AT THE END OF THE SHIFT. AT THE END OF THE SHIFT THE SKIN SHOULD BE CLEANED AND SKIN-CARE AGENTS APPLIED.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE • LIQUID, DARK-BROWN

ODOR • DAMP

ODOR THRESHOLD • NO DATA

PH • NOT APPLICABLE

MELTING POINT/FREEZING POINT • NO DATA

BOILING RANGE • NO DATA

FLASH POINT • >200°C

EVAPORATION RATE • NO DATA

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0 0 0

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES (CONT'D)

FLAMMABILITY (SOLID, GAS) • NO DATA

IGNITABLE, EXPLOSIVE RANGE • NO DATA

VAPOUR PRESSURE • < 0.00001 MBAR (AT 20°C)

VAPOUR DENSITY • NO DATA

DENSITY • 1,19±0,02 G/CM³ (AT 25°C)

SOLUBILITY • REACTS WITH WATER AT THE BORDER AREA WITH SLOW CO₂ APPEARANCE INTO NON-SOLUBLE, HIGH MELTING POINT OR NOT MELTING POLYUREA

PARTITION COEFFICIENT (N-OCTANOL/WATER) • NOT APPLICABLE

SELF IGNITION TEMPERATURE • NO DATA

DECOMPOSITION TEMPERATURE • NO DATA

VISCOSITY • 280 - 340 MP.A.S (AT 20°C)

EXPLOSIVE PROPERTIES • NON-EXPLOSIVE

OXIDIZING PROPERTIES • NO DATA

OTHER INFORMATION • NOT APPLICABLE.

SECTION X: STABILITY & REACTIVITY DATA

REACTIVITY • REACTS WITH WATER, ACIDS, ALCOHOLS, AMINES, BASES AND OXIDANTS.

CHEMICAL STABILITY • THE MAIN REMOVAL MECHANISM OF PROPRIETARY ISOCYANATE RESINS (PIR) IN THE ENVIRONMENT IS HYDROLYSIS. PIR'S REACTS QUICKLY WITH WATER TO FORM PREDOMINANTLY SOLID, INSOLUBLE POLYUREAS. UNDER CONDITIONS TYPICAL OF MANY TYPES OF ENVIRONMENTAL CONTACT, I.E. WITH RELATIVELY POOR DISPERSION OF THE ISOCYANATE, THE INTERFACIAL REACTION LEADS TO THE FORMATION OF A SOLID CRUST ENCASING PARTIALLY REACTED PRODUCT. THIS CRUST RESTRICTS INGRESS OF WATER AND EGRESS OF AMINE, AND HENCE SLOWS AND MODIFIES HYDROLYSIS. • STABILITY IN ORGANIC SOLVENTS: ALL PIR ISOMERS AND FORMS ARE HIGHLY UNSTABLE IN DIMETHYLSULHPOXIDE SOLVENT, WATER CONTENT OF THE DMSO IS INCREASING BREAKDOWN. PIR IS MORE STABLE IN EGDE (ETHYLENEGLYCOLDIMETHYLETHER) AS SOLVENT.

POSSIBILITY OF HAZARDOUS REACTIONS • REACTION IS SLOW WITH COLD OR WARM WATER (<50°C), WITH HOT WATER OR STEAM THE REACTION IS FASTER, PRODUCING CARBON-DIOXIDE CAUSING PRESSURE INCREASE. ACIDS, ALCOHOLS, AMINES, BASES AND OXIDANTS CAUSE FIRE AND EXPLOSION HAZARD.

CONDITIONS TO AVOID • HIGH TEMPERATURE, MOISTURE, STRONG LIGHT.

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0 0 0

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

INCOMPATIBLE MATERIALS • SUBSTANCES TO AVOID: ACIDS, ALCOHOLS, AMINES, WATER, ALKALINES.
HAZARDOUS DECOMPOSITION PRODUCTS • NO HAZARDOUS DECOMPOSITION PRODUCTS IF STORED AND HANDLED AS PRESCRIBED/INDICATED.

SECTION XI: TOXICOLOGICAL INFORMATION

• INFORMATION IS RELATED TO PROPRIETARY ISOCYANATE RESIN (#2) IF NO OTHER IS MENTIONED.

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY - ORAL • HARMFUL • RATS (FEMALE) LD50=632 MG/KG • DILUENT (#1)

ACUTE TOXICITY - INHALATION • HARMFUL • RATS LC50 > 2,24 MG/L AIR (1 H) • OECD GUIDELINE 403
• RATS LC50 > 7 MG/L AIR (4 H), DUSTS AND MISTS • OECD 403 ACUTE INHALATION TOXICITY / • 433
ACUTE INHALATION TOXICITY-FIXED DOSE PROCEDURE • PROPRIETARY DILUENT (#1) • RATS LC50 >
5,14 G/M3 (4 H) INHALATION DUST AND MISTS • OECD 403 ACUTE INHALATION TOXICITY •
PROPRIETARY DILUENT (#2)

ACUTE TOXICITY – DERMAL • NOT CLASSIFIED. BASED ON AVAILABLE DATA, THE CLASSIFICATION
CRITERIA ARE NOT MET. • RABBIT LD50 > 9400 MG/KG BW (24 H) • OECD GUIDELINE 402

IRRITATION/CORROSION • SUMMARIZED THE RESULTS OF THE STUDIES TOGETHER WITH HUMAN
OCCUPATIONAL CASE REPORTS SUPPORT THE OFFICIAL CLASSIFICATION.

SKIN CORROSION/SKIN IRRITATION • IRRITATING • IRRITATING IN RABBITS. (4 H / 14 DAYS) • OECD
GUIDELINE 404 • INGREDIENT NAME: PROPRIETARY DILUENT (#2) • RESULT SKIN - ERYTHEMA/ ESCHAR
• SPECIES RABBIT • SCORE 0,67 • EXPOSURE — • TEST OECD 404 ACUTE DERM. IRRIT./CORR.

EYE DAMAGE/IRRITATION • NOT IRRITATING IN RABBITS. (24 H / 21 DAYS) • OECD GUIDELINE 405 •
SUMMARIZED THE AVAILABLE ANIMAL DATA WOULD NOT SUPPORT CLASSIFICATION OF PROPRIETARY
ISOCYANATE RESIN (PIR) AS AN EYE IRRITANT. BUT TOGETHER WITH HUMAN OCCUPATIONAL CASE
REPORTS IN WHICH SYMPTOMS OF EYE IRRITATION WERE REPORTED, THE LEGAL CLASSIFICATION AS
EYE IRRITANT SHOULD BE APPLIED.

SENSITISATION • ANIMAL DATA AS WELL AS STUDIES IN HUMANS PROVIDE EVIDENCE OF POSSIBLE
SKIN SENSITISATION, AND OF RESPIRATORY SENSITISATION DUE TO PROPRIETARY ISOCYANATE RESIN
(PIR). ANIMAL STUDIES INDICATE THAT PIR IS A STRONG ALLERGEN. HUMAN CASE REPORTS DESCRIBE
THE OCCURRENCE OF ALLERGIC CONTACT DERMATITIS DUE TO PIR EXPOSURE.

SKIN SENSITISATION • MICE SENSITIZING.

INGREDIENT NAME • PROPRIETARY DILUENT (#2)

ROUTE OF EXPOSURE • SKIN

SPECIES • GUINEA PIG

RESULT • SENSITISING

TEST • OECD 406 SKIN SENS

RESPIRATORY SENSITISATION • GUINEA PIG SENSITIZING.

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0 0 0

SECTION XI: TOXICOLOGICAL INFORMATION (CONT'D)

MUTAGENICITY • NOT CLASSIFIED. BASED ON AVAILABLE DATA, THE CLASSIFICATION CRITERIA ARE NOT MET.

CARCINOGENITY • CARC. CAT. 2 • RATS (INHALATION) NOAEC = 0.2 MG/M3 AIR (TOXICITY) (2 YEARS; 6 H/DAY, 5 DAYS/WEEK) • NOAEC = 1 MG/M3 AIR (CARCINOGENICITY) (2 YEARS; 6 H/DAY, 5 DAYS/WEEK) • LOAEC = 6 MG/M3 AIR (CARCINOGENICITY) (2 YEARS; 6 H/DAY, 5 DAYS/WEEK) • OECD GUIDELINE 414.

REPRODUCTIVE TOXICITY • NOT CLASSIFIED. BASED ON AVAILABLE DATA, THE CLASSIFICATION CRITERIA ARE NOT MET.

EFFECTS ON FERTILITY • NO FERTILITY NOR MULTIGENERATION STUDIES ARE AVAILABLE FOR PROPRIETARY ISOCYANATE RESIN (PIR).

RATS (INHALATION) • NOAEL = 4 MG/M3 AIR (DEVELOPMENTAL TOXICITY) (10 DAYS; 1/DAY, 6 H) • NOAEL = 4 MG/M3 AIR (MATERNAL TOXICITY) (10 DAYS; 1/DAY, 6 H) • OECD GUIDELINE 453.

STOT-SINGLE EXPOSURE • PROPRIETARY ISOCYANATE RESINS (PIR) ARE IRRITANTS TO THE RESPIRATORY TRACT.

STOT-REPEATED EXPOSURE • RATS (INHALATION) • LOAEC = 1.0 MG/M3 AIR (2 YEARS; 6 H/DAY, 5 DAYS/WEEK) • TARGET ORGANS: RESPIRATORY – LUNG. • OECD GUIDELINE 453

ASPIRATION HAZARD • NOT CLASSIFIED DUE TO LACK OF DATA.

SECTION XII: ECOLOGICAL INFORMATION

• INFORMATION IS RELATED TO PROPRIETARY ISOCYANATE RESIN (#2) IF NO OTHER IS MENTIONED.

TOXICITY: AQUATIC

SHORT-TERM TOXICITY TO FISH • FRESHWATER FISH (BRACHYDANIO RERIO) LC50 > 1000 MG/L (96 H)
• OECD GUIDELINE 203

FISH • LC50 = 56,2 MG/L (96 H) • PROPRIETARY DILUENT (#1)

FISH • LC50 = 17,8-21,5 MG/L (96 H) • PROPRIETARY DILUENT (#2)

LONG-TERM TOXICITY TO FISH • DATA WAIVING. IN ACCORDANCE WITH COLUMN 2 OF REACH ANNEX IX, THE LONG-TERM TOXICITY TESTING ON FISH SHALL BE PROPOSED IF THE CHEMICAL SAFETY ASSESSMENT ACCORDING TO ANNEX I INDICATES THE NEED TO INVESTIGATE FURTHER THE EFFECTS ON AQUATIC ORGANISMS. THE CORRESPONDING PEC/PNEC RATIOS WOULD BE LESS THAN 1. TAKING INTO ACCOUNT THE SCIENTIFIC AND EXPOSURE ARGUMENTS, IT APPEARS APPROPRIATE TO WAIVER THE LONG-TERM FISH/PLANT/SOIL AND SEDIMENT TOXICITY STUDIES.

SHORT-TERM TOXICITY TO AQUATIC INVERTEBRATES • FRESHWATER INVERTEBRATES (DAPHNIA MAGNA) EC50 >1000 MG/L (24 H) • OECD GUIDELINE 202 • DAPHNIA MAGNA: EC50 = 131 MG/L (48 H)
• PROPRIETARY DILUENT (#1) • DAPHNIA - DAPHNIA MAGNA ACUTE EC50 = 11 MG/L (48 H) • DIN 38412, PART 11 • PROPRIETARY DILUENT (#2)

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0 0 0

SECTION XII: ECOLOGICAL INFORMATION (CONT'D)

LONG-TERM TOXICITY TO AQUATIC INVERTEBRATES • FRESHWATER INVERTEBRATES (DAPHNIA MAGNA) NOEC \geq 10 MG/L (21 DAYS) • OECD GUIDELINE 211.

TOXICITY TO AQUATIC ALGAE AND CYANOBACTERIA • FRESHWATER ALGAE (DESMODESMUS SUBSPICATUS) EC50 $>$ 1640 MG/L (72 H) • OECD GUIDELINE 201 • FRESHWATER ALGAE (DESMODESMUS SUBSPICATUS) EC50 = 82 MG/L (72 H) • PROPRIETARY DILUENT (#1) • ALGAE (DESMODESMUS SUBSPICATUS) ACUTE IC50 = 34,1 MG/L (72 H) GROWTH RATE • DIN3812, PART 9 • PROPRIETARY DILUENT (#2) • ALGAE (DESMODESMUS SUBSPICATUS): ACUTE IC50 = 33,2 MG/L (72 H) GROWTH RATE, BIOMASS • DIN 3812, PART 9 • PROPRIETARY DILUENT (#2) • BACTERIA – ACTIVATED SLUDGE CHRONIC EC50=37,2 MG/L (28 DAYS) • OECD 301B READY BIODEGRADABILITY – CO2 EVOLUTION TEST • PROPRIETARY DILUENT (#2).

TOXICITY TO AQUATIC PLANTS OTHER THAN ALGAE • DATA WAIVING. NOT REQUIRED BY REACH ANNEXES. HOWEVER, A MESOCOSM STUDY WITH PROPRIETARY ISOCYANATE RESIN (PIR) EXISTS IN WHICH THE TOXICITY TOWARDS MACROPHYTES (POTAMOGETON CRISPUS AND ZANNICHELLIA PALUSTRIS) WAS ASSESSED. NO TOXICITY WAS OBSERVED AT A LOADING OF 1000 AND 10,000 MG/L, APPROXIMATELY 100% OF THE SUBSTANCE WAS FOUND IN THE SEDIMENT AS HARDENED MATERIAL.

TOXICITY TO MICROORGANISMS • MICROORGANISMS (ACTIVATED SLUDGE) EC50 $>$ 100 MG/L (3 H) • OECD GUIDELINE 209.

TOXICITY TO OTHER AQUATIC ORGANISMS • THIS INFORMATION IS NOT AVAILABLE, BUT NOT REQUIRED UNDER REACH.

SEDIMENT TOXICITY • DATA WAIVING. ANNEX X STATES THAT THIS STUDY NEED NOT BE CONDUCTED IF THE CHEMICAL SAFETY ASSESSMENT DOES NOT INDICATE A NEED TO FURTHER INVESTIGATE THE EFFECTS ON SEDIMENT ORGANISMS.

TERRESTRIAL TOXICITY • TOXICITY TO SOIL MACROORGANISMS EXCEPT ARTHROPODS: EISENIA FETIDA • LC50 $>$ 1000 MG/KG SOIL DW (14 DAYS) • OECD GUIDELINE 207.

TOXICITY TO TERRESTRIAL ARTHROPODS • DATA WAIVING. BASED ON THE CHEMICAL SAFETY ASSESSMENT AND THE RISK ASSESSMENT, THERE IS NO NEED TO FURTHER INVESTIGATE THE TERRESTRIAL ARTHROPODS TOXICITY AS THERE IS NO RISK FOR THE TERRESTRIAL ENVIRONMENT AS INDICATED BY THE PEC/PNEC RATIO BEING $<$ 0.239. DIRECT/INDIRECT EXPOSURE TO SOIL IS UNLIKELY.

TOXICITY TO TERRESTRIAL PLANTS • AVENA SATIVA EC50 $>$ 1000 MG/KG SOIL DW (14 DAYS) • LACTUCA SATIVA EC50 $>$ 1000 MG/KG SOIL DW (14 DAYS) • OECD GUIDELINE 208 TOXICITY TO SOIL MICROORGANISMS • DATA WAIVING. ANNEX X STATES THAT THIS STUDY NEED NOT BE CONDUCTED IF THE CHEMICAL SAFETY ASSESSMENT DOES NOT INDICATE A NEED TO FURTHER INVESTIGATE THE EFFECTS ON SEDIMENT ORGANISMS.

TOXICITY TO OTHER ABOVEGROUND ORGANISMS • DATA WAIVING. NOT REQUIRED BY REACH.

ECO CorFlex

Molecular Industrial Polymers

SAFETY DATA SHEET

PRODUCT NAME: ECO-PATCH (PART B)

HMIS RATINGS: H F PH

PRODUCT DESCRIPTION: CONCRETE PATCH SYSTEM

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SECTION XII: ECOLOGICAL INFORMATION (CONT'D)

CONCLUSION ON CLASSIFICATION • HAZARDOUS TO THE AQUATIC ENVIRONMENT (ACUTE): BASED ON AVAILABLE DATA, THE CLASSIFICATION CRITERIA ARE NOT MET. (EC/LC50 FOR FISH, INVERTEBRATES AND ALGAE > 1000 MG/L) • HAZARDOUS TO THE AQUATIC ENVIRONMENT (CHRONIC): BASED ON AVAILABLE DATA, THE CLASSIFICATION CRITERIA ARE NOT MET. (NOEC FOR ALGAE >1640 MG/L; NOEC FOR INVERTEBRATES > 10 MG/L)

PERSISTENCE AND DEGRADABILITY

PHOTOTRANSFORMATION IN AIR • HALF-LIFE (DT50): 1 DAY

HYDROLYSIS • PROPRIETARY ISOCYANATE RESIN (PIR) REACTS WITH WATER TO FORM PREDOMINANTLY INERT POLYUREA. • HALF-LIFE (DT50): 20 H (AT 25°C).

PHOTOTRANSFORMATION IN WATER AND SOIL • THERE ARE NO PHOTOTRANSFORMATION DATA IN WATER AND SOIL FOR THE TEST SUBSTANCE.

BIODEGRADATION IN WATER • UNDER TEST CONDITIONS NO BIODEGRADATION OBSERVED. (28 DAYS)

• OECD GUIDELINE 302C

BIODEGRADATION IN WATER AND SEDIMENT • DATA WAIVING. IN ACCORDANCE WITH ANNEX XI, SIMULATION BIODEGRADATION TESTS ARE TECHNICALLY NOT FEASIBLE AS THE TEST SUBSTANCE REACTS QUICKLY WITH WATER. THE CORRESPONDING PEC/PNEC RATIOS WOULD BE LESS THAN 1. TAKING INTO ACCOUNT THE SCIENTIFIC AND EXPOSURE ARGUMENTS, IT APPEARS APPROPRIATE TO WAIVER THE LONG-TERM FISH/ PLANT/SOIL AND SEDIMENT TOXICITY STUDIES.

BIODEGRADATION IN SOIL • DATA WAIVING. SEE AT BIODEGRADATION IN WATER AND SEDIMENT.

BIOACCUMULATIVE POTENTIAL • BIOACCUMULATION - AQUATIC/SEDIMENT: DUE TO THE HIGH REACTIVITY OF THE SUBSTANCES OF THE PROPRIETARY RESIN CATEGORY WITH WATER, BIOACCUMULATION TESTS CAN IN PRINCIPLE NOT BE PERFORMED WITH THESE SUBSTANCES. HOWEVER, ONE BIOACCUMULATION TEST WITH PROPRIETARY ISOCYANATE RESIN (PIR) AND A MESOCOSM STUDY WITH PIR, WITH AN INDICATION OF BIOACCUMULATION POTENTIAL, HAVE BEEN PERFORMED. AS NO ANALYTICAL MEASUREMENTS WERE DONE, IT CANNOT BE DETERMINED IF THE VALUES ARE TRULY RELATED TO THE PIR HOWEVER, BASED ON AVAILABLE INFORMATION AND THE REACTIVITY OF PIR SUBSTANCES OF THE CATEGORY APPROACH, NO NEW BIOACCUMULATION STUDY IS DEEMED NECESSARY. • BCF (CYPRINUS CARPIO) 200 (28 DAYS) • METHOD: OECD GUIDELINE 305 E.

TERRESTRIAL BIOACCUMULATION • NO DATA IS AVAILABLE ON TERRESTRIAL BIOACCUMULATION, BUT IT IS NOT REQUIRED UNDER REACH.

ECO CorFlex

Molecular Industrial Polymers

SAFETY DATA SHEET

PRODUCT NAME: ECO-PATCH (PART B)

HMIS RATINGS: H F PH

PRODUCT DESCRIPTION: CONCRETE PATCH SYSTEM

0 0 0

SECTION XII: ECOLOGICAL INFORMATION (CONT'D)

MOBILITY IN SOIL • ADSORPTION/DESORPTION: DATA WAIVING. ACCORDING TO ANNEX VIII, THE STUDY NEED NOT BE DONE IF THE TEST SUBSTANCE DEGRADES RAPIDLY. THE CORRESPONDING PEC/PNEC RATIOS WOULD BE LESS THAN 1. TAKING INTO ACCOUNT THE SCIENTIFIC AND EXPOSURE ARGUMENTS, IT APPEARS APPROPRIATE TO WAIVER THE LONG-TERM FISH/PLANT/SOIL AND SEDIMENT TOXICITY STUDIES. **VOLATILISATION:** THE ESTIMATED HENRY'S LAW CONSTANT, CALCULATED FROM THE MEASURED VAPOUR PRESSURE AND THE CALCULATED WATER SOLUBILITY, IS 2.263×10^{-7} ATM-M³/MOLE. HENCE, VOLATILIZATION IS UNLIKELY TO BE A SIGNIFICANT REMOVAL MECHANISM FOR PROPRIETARY RESIN SUBSTANCES OF THE CATEGORY APPROACH.

RESULTS OF PBT AND VPVB ASSESSMENT • CONCLUSION FOR THE P CRITERION: THE RESULTS FROM THE BIODEGRADATION TEST INDICATE THAT PROPRIETARY ISOCYANATE RESIN (PIR) IS NOT BIODEGRADABLE. BASED ON EXPERIMENTAL HYDROLYSIS AND INDIRECT PHOTOLYSIS, HALF-LIVES, PIR IS NOT CONSIDERED TO BE PERSISTENT IN THE ENVIRONMENT AND IS IDENTIFIED AS NOT P. BASED ON THE JUSTIFICATION IN THE CATEGORY APPROACH, IT IS ASSUMED THAT ALL PIR ANALOGUES INCLUDED IN THE CATEGORY ARE NOT P. **CONCLUSION FOR THE B CRITERION:** ALTHOUGH PIR HAS A HIGH MEASURED LOG POW VALUE (4.51), A FULL BIOACCUMULATION TEST WITH PIR (#2) INDICATED THAT THE BIOACCUMULATION POTENTIAL IS LOW. DUE TO THE FAST HYDROLYSIS, EXPOSURE OF THE ENVIRONMENT TO THE SUBSTANCE IS UNLIKELY OR VERY LOW, THERE IS NO POTENTIAL FOR SIGNIFICANT BIOACCUMULATION POSSIBLE. HENCE, PIR (#2) DOES NOT FULFIL THE REQUIREMENTS FOR THE B CRITERION AND IS NOT IDENTIFIED AS B. **CONCLUSION FOR THE T CRITERION:** THE CONCENTRATIONS TESTED WERE FAR ABOVE THE WATER SOLUBILITY OF THE PIR SUBSTANCES (7.5 MG/L). HOWEVER, THE WATER SOLUBILITY LIMIT OF PIR IS FAR ABOVE THE CRITERIA FOR T AND ON THE BASIS OF AQUATIC TOXICITY TESTS, PIR IS IDENTIFIED AS NOT T. HOWEVER, ACCORDING TO ANNEX I OF 67/548/EEC, PIR IS CLASSIFIED AS XN, R48, WHICH AUTOMATICALLY TRIGGERS A T. BASED ON THIS CLASSIFICATION, PIR IS IDENTIFIED AS T.

OTHER ADVERSE EFFECTS • IT IS NOT EXPECTED THAT SUBSTANCE HAS AN EFFECT ON GLOBAL WARMING, OZONE DEPLETION IN THE STRATOSPHERE OR OZONE FORMATION IN THE TROPOSPHERE. **SECONDARY POISONING:** BASED ON THE AVAILABLE INFORMATION, THERE IS NO INDICATION OF A BIOACCUMULATION POTENTIAL AND, HENCE, SECONDARY POISONING IS NOT CONSIDERED RELEVANT. EXPOSURE TO BIRDS IS NOT EXPECTED AND DATA FROM EXPERIMENTAL ANIMALS SHOW PROPRIETARY RESINS TO BE OF LOW ORAL TOXICITY.

ECO CorFlex

Molecular Industrial Polymers

SAFETY DATA SHEET

PRODUCT NAME: ECO-PATCH (PART B)

HMIS RATINGS: H F PH

PRODUCT DESCRIPTION: CONCRETE PATCH SYSTEM

0 0 0

SECTION XIII: DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS • THE PRODUCTS BECOMING USELESS AND THE CONTAMINATED CONTAINERS NOT SUITABLE FOR PRODUCT STORAGE MUST BE HANDLED AS HAZARDOUS WASTE IN ACCORDANCE WITH EU AND REGIONAL HAZARDOUS WASTE REGULATIONS. EUROPEAN WASTE CATALOGUE CODE: 08 05 01

PRODUCT / PACKAGING DISPOSAL • CONTAMINATED PACKAGING SHOULD BE EMPTIED AS FAR AS POSSIBLE; THAN IT CAN BE PASSED ON FOR RECYCLING AFTER BEING THOROUGHLY CLEANED. WRAPPINGS CLEANED FROM CONTAMINATION WITH SUITABLE CLEANING PROCESS (E.G. BY STEAMING, TREATING WITH WASHING FLUID, ETC.) MUST BE CONSIDERED AS NON-HAZARDOUS WASTE.

WASTE TREATMENT OPTIONS • INCINERATE IN SUITABLE INCINERATION PLANT, OBSERVING LOCAL AUTHORITY REGULATIONS.

SECTION XIV: TRANSPORT INFORMATION

- LAND TRANSPORT (ADR/RID/GGVSE)
- SEA TRANSPORT (IMDG-CODE/GGVSEE)
- AIR TRANSPORT (ICAO-IATA/DGR)

UN NUMBER • NOT DANGEROUS GOODS

UN PROPER SHIPPING NAME • NOT DANGEROUS GOODS

TRANSPORT HAZARD CLASS(ES) • NOT DANGEROUS GOODS

PACKAGING GROUP • NOT DANGEROUS GOODS

ENVIRONMENTAL HAZARDS • MARINE POLLUTANT: NO

SPECIAL PRECAUTIONS FOR USERS • EMS NUMBER: NOT DANGEROUS GOODS

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE • NOT RELEVANT.

SECTION XV: REGULATORY INFORMATION

INFORMATION REGARDING RELEVANT COMMUNITY SAFETY, HEALTH AND ENVIRONMENTAL PROVISIONS • ISOPA, THE EUROPEAN DIISOCYANATE & POLYOL PRODUCERS ASSOCIATION HAS ELABORATED A GUIDELINE DOCUMENT FOR THE SAFE TREATMENT OF PROPRIETARY ISOCYANATE RESIN-CONTAINING PRODUCTS. THE GUIDELINES HAVE BEEN BUILT INTO THIS DATA SHEET.

CHEMICAL SAFETY ASSESSMENT • IN ACCORDANCE WITH REACH CHEMICAL SAFETY ASSESSMENT HASNOT BEEN CARRIED OUT FOR THE PRODUCT. HOWEVER, THE RESULTS FROM THE CSA FOR PROPRIETARY ISOCYANATE RESIN (#2) WERE TRANSPosed INTO THIS SDS.

ECO CorFlex

Molecular Industrial Polymers

SAFETY DATA SHEET

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HMIS RATINGS: H F PH

PRODUCT DESCRIPTION: CONCRETE PATCH SYSTEM

0 0 0

SECTION XVI: OTHER INFORMATION

THE INFORMATION GIVEN CORRESPONDS WITH OUR ACTUAL KNOWLEDGE AND EXPERIENCE. THIS INFORMATION IS MEANT TO DESCRIBE OUR PRODUCT IN VIEW OF POSSIBLE SAFETY REQUIREMENTS. CLASSIFICATION OF THE MIXTURE IS BASED ON THE CLASSIFICATION OF COMPONENTS.

ABBREVIATIONS AND ACRONYMS

- BW: BODYWEIGHT
- CAS NUMBER: CHEMICAL ABSTRACTS SERVICE NUMBER
- CLP: REGULATION ON CLASSIFICATION, LABELLING AND PACKAGING
- DNEL: DERIVED NO EFFECT LEVEL
- DW: DRY WEIGHT
- EC NUMBER: EINECS AND ELINCS NUMBER
- EC50: HALF MAXIMAL EFFECTIVE CONCENTRATION
- EINECS: EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES
- ELINCS: EUROPEAN LIST OF NOTIFIED CHEMICAL SUBSTANCES
- LC50: LETHAL CONCENTRATION, 50 %
- LD50: MEDIAN LETHAL DOSE
- LOAEC: LOWEST OBSERVED ADVERSE EFFECT CONCENTRATION
- NOAEC: NO OBSERVED ADVERSE EFFECT CONCENTRATION
- NOAEL: NO OBSERVED ADVERSE EFFECT LEVEL
- NOEC: NO OBSERVED EFFECT CONCENTRATION
- OECD: ORGANISATION FOR ECONOMIC COOPERATION AND DEVELOPMENT
- PBT: PERSISTENT, BIOACCUMULATIVE AND TOXIC
- PEC: PREDICTED ENVIRONMENTAL CONCENTRATION
- PNEC: PREDICTED NO EFFECT CONCENTRATION
- REACH: THE REGISTRATION, EVALUATION, AUTHORISATION AND RESTRICTION OF CHEMICALS
- VPVB: VERY PERSISTENT AND VERY BIOACCUMULATIVE

ECO CorFlex

Molecular Industrial Polymers

SAFETY DATA SHEET

PRODUCT NAME: ECO-PATCH (PART B)

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0 0 0

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