



MATERIAL SAFETY DATA SHEET

ENVIRO CHEM NEUTRAL DISINFECTANT (NO FRAGRANCE)

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER'S NAME: ROCHESTER MIDLAND LIMITED
 MANUFACTURERS ADDRESS: 851 PROGRESS COURT, OAKVILLE, ONTARIO
 EMERGENCY PHONE NUMBER: CANUTEC (613) 996-6666
 SUPPLIER IDENTIFIER: NOT AVAILABLE
 SUPPLIER'S ADDRESS: NOT AVAILABLE
 SUPPLIER EMERGENCY PHONE NUMBER: NOT AVAILABLE
 PRODUCT NAME: ENVIRO CHEM NEUTRAL DISINFECTANT (NO FRAGRANCE)
 PRODUCT USE: CONCENTRATED CLEANER / DISINFECTANT
 WHMIS CATEGORY: NOT WHMIS REGULATED (REGISTERED PRODUCT UNDER TPD WITH DIN)
 PREPARED BY: ROCHESTER MIDLAND LIMITED.
 PHONE NUMBER OF PREPARER: (905) 847-3000
 DATE PREPARED: MAY 1, 2014

SECTION 02: COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	%	CAS#	EXPOSURE LEVELS	LD (50), ROUTE, SPECIES	LC(50), ROUTE, SPECIES
ETHANOL	0.1-1	64-17-5	ACGIH TLV-TWA 1000 ppm, 1900 mg/ m ³ OSHA PEL-TWA 1000 ppm; 1900 mg/ m ³ NIOSH TLV-TWA 1000 ppm; 1900 mg/ m ³ IDLH 3300 ppm.	ORAL 7060 mg/Kg (RAT) DERMAL 5628 mg/ Kg (RAT)	20000 ppm 4 HOUR EXPOSURE (RAT)
ALKYL (C12-16) DIMETHYL BENZYL AMMONIUM CHLORIDE (ADBAC)	1-5	68424-85-1	NOT AVAILABLE	ORAL 344 mg/ Kg (RAT) DERMAL 3340 mg/ Kg (RAT)	NOT AVAILABLE
DIDECYL DIMETHYL AMMONIUM CHLORIDE (DDMAC)	1-5	7173-51-5	NOT AVAILABLE	ORAL 238 mg/ Kg (RAT) DERMAL 3342 mg/ Kg (RABBIT)	NOT AVAILABLE

SECTION 03: HAZARDS IDENTIFICATION

POTENTIAL ACUTE HEALTH EFFECTS:

ROUTE OF ENTRY: EYES, SKIN, INHALATION, INGESTION
 SKIN CONTACT: PROLONGED SKIN CONTACT CAN CAUSE IRRITATION AND DERMATITIS.
 SKIN ABSORPTION: ABSORPTION OF ETHANOL COMPONENT THROUGH THE SKIN IS EXPECTED TO BE MINIMAL.
 EYE: DIRECT CONTACT MAY CAUSE SERIOUS IRRITATION; BURNING, TEARING, REDNESS AND SWELLING. IF LEFT UNTREATED MAY CAUSE PERMANENT EYE DAMAGE.
 INHALATION: EXCESSIVE INHALATION OF CONCENTRATED VAPOUR MAY CAUSE NOSE AND RESPIRATORY IRRITATION, HEADACHE, NAUSEA, DIZZINESS AND DROWSINESS. NOT A LIKELY ROUTE OF ENTRY WHEN USED AS DIRECTED.
 INGESTION: MAY BE HARMFUL IF SWALLOWED. MAY CAUSE BURNS TO MUCOUS MEMBRANES OF MOUTH, THROAT AND ESOPHAGUS. MAY CAUSE GASTRO INTESTINAL PAIN, NAUSEA, DIZZINESS, DIARRHEA, VOMITING. ASPIRATION OF VOMITED CONTENTS MAY CAUSE CHEMICAL PNEUMONITIS.
 ACUTE OVER-EXPOSURE EFFECTS: AS ABOVE.
 CHRONIC OVEREXPOSURE EFFECTS: NONE EXPECTED WHEN USED AS DIRECTED.

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SECTION 04: FIRST AID MEASURES

EYES: FLUSH EYES WITH ABUNDANT WATER FOR AT LEAST 20 MINUTES WHILE HOLDING EYELIDS OPEN TO ENSURE COMPLETE IRRIGATION OF THE ENTIRE EYE CAVITY. GET MEDICAL ATTENTION.

SKIN: WASH SKIN WITH SOAP AND ABUNDANT WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING. IF SYMPTOMS PERSIST, GET MEDICAL ATTENTION.

INHALATION: REMOVE VICTIM TO FRESH AIR. ASSIST BREATHING AS NEEDED. GET MEDICAL ATTENTION.

INGESTION: **DO NOT INDUCE VOMITING.** IF VICTIM CONSCIOUS, GIVE 1 - 2 GLASSES OF WATER TO DILUTE STOMACH CONTENTS. **GET IMMEDIATE MEDICAL ATTENTION.** NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

SECTION 05: FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD OF DETERMINATION: NONE, TCC

UPPER EXPLOSION LIMIT (% BY VOLUME): NOT AVAILABLE

LOWER EXPLOSION LIMIT (% BY VOLUME): NOT AVAILABLE

AUTO-IGNITION TEMPERATURE: NOT AVAILABLE

FLAMMABILITY CLASSIFICATION: NON-FLAMMABLE LIQUID

CONDITIONS OF FLAMMABILITY: NONE.

MEANS OF EXTINCTION: AS FOR SURROUNDING FIRE.

SPECIAL FIRE FIGHTING PROCEDURES: FIREFIGHTERS SHOULD WEAR FULL PROTECTIVE EQUIPMENT AND USE APPROVED SELF CONTAINED BREATHING APPARATUS. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS TO PREVENT PRESSURE BUILDUP AND POSSIBLE RUPTURE. AVOID BREATHING VAPOURS OR FUMES. DIKE TO CONTAIN WATER USED IN FIGHTING FIRE. DO NOT ALLOW THIS WATER INTO OPEN WATERWAYS OR SEWERS

HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF CARBON AND NITROGEN; AMMONIA; HYDROGEN CHLORIDE.

EXPLOSION DATA: NOT APPLICABLE

SENSITIVITY TO STATIC DISCHARGE: NOT SENSITIVE

SENSITIVITY TO MECHANICAL IMPACT: NOT SENSITIVE

SECTION 06: ACCIDENTAL RELEASE MEASURES

LEAK AND SPILL PROCEDURES: CLEANUP PERSONNEL MUST USE FULL PROTECTIVE EQUIPMENT AS LISTED IN PERSONAL PROTECTION SECTION. REMOVE UNPROTECTED PERSONNEL AWAY FROM SPILL AREA. VENTILATE AREA. CAUTION: SPILL AREA MAY BE SLIPPERY.

SMALL SPILLS: MOP UP. FLUSH AREA WITH WATER.

LARGE SPILLS: DIKE TO CONTAIN LIQUID. RECLAIM ALL MATERIAL POSSIBLE. DO NOT ALLOW SPILL OR SPILL RESIDUES WATER TO ENTER OPEN WATERWAYS OR SEWERS. ABSORB REMAINDER ON INERT MATERIAL AND PLACE IN CLOSED CONTAINERS FOR DISPOSAL. FLUSH RESIDUE AWAY WITH WATER.

SECTION 07: HANDLING AND STORAGE

HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH EYES, SKIN OR CLOTHING. AVOID EXCESSIVE INTENTIONAL INHALATION OF SPRAY MISTS. WASH SKIN THOROUGHLY AFTER HANDLING. REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE RE-USE. KEEP CONTAINER CLOSED WHEN NOT IN USE. DO NOT CONTAMINATE FOOD, WATER OR ANIMAL FEED DURING USE OR STORAGE OF THIS PRODUCT. READ AND FOLLOW LABEL INSTRUCTIONS. DO NOT RE-USE EMPTY CONTAINERS. TRIPLE RINSE CONTAINERS BEFORE DISPOSAL. MIX ONLY WITH WATER.

STORAGE REQUIREMENTS: KEEP CONTAINER CLOSED WHEN NOT IN USE. STORE INDOORS IN A COOL WELL VENTILATED AREA AWAY FROM INCOMPATIBLE MATERIALS. KEEP FROM FREEZING. KEEP OUT OF REACH OF CHILDREN. STORE ONLY IN ORIGINAL CONTAINER. DO NOT REUSE CONTAINER.

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SECTION 08: EXPOSURE CONTROLS/ PERSONAL PROTECTION

EYE PROTECTION: WEAR CHEMICAL SAFETY GLASSES WITH SIDE SHIELDS OR CHEMICAL SPLASH GOGGLES.
RESPIRATORY PROTECTION: NONE NORMALLY REQUIRED WHEN USED AS DIRECTED. USE NIOSH APPROVED RESPIRATOR IF EXPOSURE LEVELS ARE EXCEEDED OR IRRITATION OCCURS.
GLOVES: WEAR NITRILE GLOVES.
OTHER PROTECTIVE EQUIPMENT: AS NEEDED TO PREVENT CONTACT WITH PRODUCT.
SPECIFIC ENGINEERING CONTROLS: NONE NORMALLY REQUIRED WHEN USED AS DIRECTED.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: LIQUID
ODOUR AND APPEARANCE: MILD ODOUR, NO ADDED FRAGRANCE, BLUE LIQUID
ODOUR THRESHOLD: NOT AVAILABLE
SPECIFIC GRAVITY: 1.0-1.01
VAPOUR PRESSURE : NOT AVAILABLE
VAPOUR DENSITY (AIR=1): NOT AVAILABLE
VOC CONTENT (%): 1.76 (ARB 310)
EVAPORATION RATE; NOT AVAILABLE
BOILING POINT; 100 °C (212 °C)
PH: 7.2-8.2
FREEZING POINT: NOT AVAILABLE
DENSITY (g/ ml): 1.0-1.01
COEFFICIENT OF WATER/OIL DISTRIBUTION: COMPLETELY WATER SOLUBLE

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: STABLE WHEN USED AND STORED AS DIRECTED.
INCOMPATIBLE MATERIALS: ACIDS AND STRONG OXIDIZING AGENTS
CONDITIONS OF REACTIVITY: NONE
HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF CARBON AND NITROGEN, AMMONIA AND HYDROGEN CHLORIDE

SECTION 11: TOXICOLOGICAL INFORMATION

IRRITANCY OF PRODUCT: MODERATE IRRITANT
SENSITIZATION TO MATERIAL: ADBAC AND DDMAC COMPONENTS ARE NOT SENSITIZING. OECD TEST GUIDELINE 406/ US EPA
CARCINOGENICITY: NO KNOWN CARCINOGENS LISTED BY OSHA, IARC OR NTP. ETHANOL IN ALCOHOLIC BEVERAGES HAS BEEN CLASSED AS A GROUP I CARCINOGEN. DOES NOT APPLY TO OCCUPATIONAL USE
REPRODUCTIVE EFFECTS: NO KNOWN REPRODUCTIVE EFFECTS FOLLOWING OCCUPATIONAL EXPOSURE TO ETHANOL. NOT EXPECTED WHEN USED AS DIRECTED.
TERATOGENICITY: THE INGESTION OF ETHANOL DURING PREGNANCY CAN CAUSE SIGNIFICANT HARMFUL EFFECTS IN UNBORN CHILDREN. NO REPORTS OF ADVERSE EFFECTS ON PREGNANCY FOLLOWING OCCUPATIONAL EXPOSURE TO ETHANOL. NOT EXPECTED WHEN USED AS DIRECTED.
MUTAGENICITY: ETHANOL COMPONENT WAS MUTAGENIC FOR MAMMALIAN SOMATIC CELLS, ALSO BACTERIA AND/OR YEAST.
TOXICOLOGICALLY SYNERGISTIC PRODUCTS: ETHANOL APPEARS TO ENHANCE THE TOXICITY OF OTHER ALCOHOLS, KETONES, BENZENE, TOLUENE, HALOGENATED HYDROCARBONS, AROMATIC AMINES AND NITROSAMINES. NOT EXPECTED WHEN USED AS DIRECTED.
OTHER INFORMATION: ETHANOL COMPONENT CAN BE SECRETED THROUGH BREAST MILK. ETHANOL COMPONENT PASSES THROUGH THE PLACENTA. LONG-TERM, REPEATED ORAL OVEREXPOSURE TO ETHANOL COMPONENT MAY RESULT IN THE DEVELOPMENT OF PROGRESSIVE LIVER INJURY AND CARDIOVASCULAR DAMAGE. NOT EXPECTED UNDER NORMAL OCCUPATIONAL USE OF PRODUCT.

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SECTION 12: ECOLOGICAL INFORMATION

THERE IS NO ECOLOGICAL INFORMATION AVAILABLE FOR PRODUCT. ECOTOXICOLOGICAL INFORMATION TO FOLLOW IS BASED LARGELY OR COMPLETELY ON INFORMATION FOR COMPONENTS.

ACUTE AQUATIC TOXICITY:

FISH SPECIES:

ETHANOL LC 50, 96 HR, RAINBOW TROUT: 12-16 ml/ L
ETHANOL LC 50, 96 HR, RAINBOW TROUT: 14000 mg/ L
ETHANOL LC 50, 24 HR, FINGERLING RAINBOW TROUT: 11200 mg/ L
ETHANOL LC 50, 48 HR, ORFE: 8.14 mg/ L
ETHANOL LC 50, 96 HR FATHEAD MINNOW: 13400-15100 mg/ L
ETHANOL LC 50, 96 HR FATHEAD MINNOW: >100 mg/ L

INVERTEBRATES:

ADBAC LC50, 96 HR, BLUEGILL: 0.52 mg/ L
ADBAC LC50, 96 HR, RAINBOW TROUT: 0.93 mg/ L
DDMAC, EC 50, 48 HR, DAPHNIA MAGNA: 0.058 mg/ L
ETHANOL EC 50, 48 HR, DAPHNIA: 9268 mg/ L
ETHANOL EC 50, 24 HR, DAPHNIA: 10800 mg/ L

MICROORGANISMS:

ETHANOL, EC50, 30 MINUTES, PHOTOBACTERIUM PHOSPHOREUM: 34634 mg/ L
ETHANOL, EC50, 5 MINUTES, PHOTOBACTERIUM PHOSPHOREUM: 35470 mg/ L

GROWTH INHIBITION) PLANTS:

NOT AVAILABLE

ADBAC AND DDMAC COMPONENTS ARE TOXIC TO AQUATIC ORGANISMS; MAY CAUSE LONG TERM ADVERSE EFFECTS TO IN THE AQUATIC ENVIRONMENT

BIODEGRADABILITY: ETHANOL COMPONENT IS READILY BIODEGRADABLE.

MOBILITY: NOT AVAILABLE

PERSISTENCE: NOT AVAILABLE

BIOACCUMULATIVE: ETHANOL COMPONENT IS NOT EXPECTED TO BIOACCUMULATE.

CHEMICAL FATE

INFORMATION: NOT AVAILABLE

OTHER INFORMATION: NOT AVAILABLE

SECTION 13: DISPOSAL CONSIDERATIONS

IN ACCORDANCE WITH MUNICIPAL, PROVINCIAL AND FEDERAL REGULATIONS.

SECTION 14: TRANSPORT INFORMATION

TDG: NOT REGULATED UNDER TDG

ADDITIONAL INFORMATION: NOT AVAILABLE

MARINE POLLUTANT: NO

SECTION 15: REGULATORY INFORMATION

DSL STATUS: LISTED

HMIS CLASSIFICATION (H, F, R, PE): 2,0,0,B

WHMIS CLASSIFICATION: PRODUCT IS A REGISTERED PRODUCT UNDER TPD WITH DIN- NOT WHMIS CONTROLLED

SECTION 16: OTHER INFORMATION

DISCLAIMER: THIS INFORMATION WAS COMPILED FROM CURRENT, RELIABLE SOURCES AND IS BELIEVED TO BE CORRECT. AS DATA AND/ OR REGULATIONS CHANGE, AND CONDITIONS OF USE ARE BEYOND OUR CONTROL, NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE AS TO COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.