



# 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 : FRAGRANCE FREE, CONCENTRATED CLEANER / DISINFECTANT  
 WHMIS CATEGORY: REGISTERED PRODUCT WITH DIN - NOT WHMIS CONTROLLED (D2B )  
 PREPARED BY : ROCHESTER MIDLAND LIMITED.  
 PHONE NUMBER OF PREPARER: (905) 847-3000  
 DATE PREPARED: DECEMBER 31, 2006

### 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 NIOSH TLV-TWA 1000 ppm OSHA PEL-TWA 1000 ppm	ORAL 7060 mg/Kg (RAT)	21000 ppm 4 HOUR EXPOSURE (MOUSE)
OTHER INGREDIENTS	%	CAS#	EXPOSURE LEVELS	LD (50), ROUTE, SPECIES	LC(50), ROUTE, SPECIES
ALKYL (C12-16) DIMETHYL BENZYL AMMONIUM CHLORIDE	1-5	68424-85-1	NOT AVAILABLE	SIMILAR PRODUCT ( C8-10) ORAL 366 mg/ Kg ( RAT) DERMAL 204 mg/ Kg; 645 mg/ Kg ( RAT)	NOT AVAILABLE
DIDECYL DIMETHYL AMMONIUM CHLORIDE	1-5	7173-51-5	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
DIMETHYL OCTYL AMINE OXIDE	0.5-1.5	3605-78-9	NOT AVAILABLE	ORAL 4800 mg/ Kg (RAT)	NOT AVAILABLE

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## 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 : NOT AVAILABLE

EYE: DIRECT CONTACT MAY CAUSE SERIOUS IRRITATION; BURNING, TEARING, REDNESS AND SWELLING. IF LEFT UNTREATED MAY CAUSE PERMANENT EYE DAMAGE.

INHALATION: EXCESS INHALATION OF CONCENTRATED VAPOUR MAY CAUSE NOSE AND RESPIRATORY IRRITATION; HEADACHE, NAUSEA, DIZZINESS AND DROWSINESS. NOT A LIKELY ROUTE OF ENTRY UNDER NORMAL USE.

INGESTION: MAY BE HARMFUL IF SWALLOWED. MAY CAUSE IRRITATION TO MUCOUS MEMBRANES OF MOUTH, THROAT AND ESOPHAGUS. MAY CAUSE GASTRO INTESTINAL PAIN, NAUSEA, DIZZINESS, DIARRHEA, VOMITING, BREATHING DIFFICULTIES AND/OR CONVULSIONS..

ACUTE OVER-EXPOSURE

EFFECTS: AS ABOVE.

CHRONIC OVER EXPOSURE

EFFECTS: NONE EXPECTED UNDER NORMAL USE CONDITIONS. REPEATED EXPOSURE MAY RESULT IN SENSITIZATION DERMATITIS.

## SECTION 04: FIRST AID MEASURES

EYES: FLUSH EYES WITH ABUNDANT WATER FOR AT LEAST 15 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 MEDICAL ATTENTION.** NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

NOTES TO PHYSICIAN: ALL TREATMENTS SHOULD BE BASED ON OBSERVED SIGNS/SYMPTOMS OF DISTRESS IN THE PATIENT. THE POSSIBILITY OF OVEREXPOSURE TO MATERIALS OTHER THAN THIS PRODUCT SHOULD BE CONSIDERED.

## SECTION 05: FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD OF DETERMINATION: NONE ( TCC)

UPPER EXPLOSION LIMIT (% BY VOLUME): NOT APPLICABLE

LOWER EXPLOSION LIMIT (% BY VOLUME): NOT APPLICABLE

AUTO-IGNITION TEMPERATURE: NOT AVAILABLE

FLAMMABILITY CLASSIFICATION: NON FLAMMABLE LIQUID

CONDITIONS OF FLAMMABILITY: NONE (PRODUCT WILL NOT BURN).

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.

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. 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 SUITABLE CONTAINERS FOR DISPOSAL. FLUSH RESIDUE AWAY WITH WATER.

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## SECTION 07: HANDLING AND STORAGE

### HANDLING PROCEDURES

AND EQUIPMENT: AVOID CONTACT WITH EYES, SKIN OR CLOTHING. DO NOT BREATHE 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.

### STORAGE

REQUIREMENTS: KEEP CONTAINER CLOSED WHEN NOT IN USE. STORE 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.

## SECTION 08: EXPOSURE CONTROLS/ PERSONAL PROTECTION

EYE PROTECTION: WEAR CHEMICAL SAFETY GLASSES OR CHEMICAL SPLASH GOGGLES.  
RESPIRATORY PROTECTION: NONE NORMALLY REQUIRED. USE NIOSH APPROVED RESPIRATOR IF VAPOUR IN AIR CAUSES IRRITATION OR EXCEEDS EXPOSURE LIMITS.  
GLOVES: WEAR RUBBER OR NEOPRENE GLOVES.  
OTHER PROTECTIVE EQUIPMENT: AS NEEDED TO PREVENT CONTACT WITH PRODUCT.  
SPECIFIC ENGINEERING CONTROLS..... NOT NORMALLY REQUIRED. USE LOCAL EXHAUST VENTILATION AS REQUIRED TO CONTROL SPRAY MISTS.

## SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: LIQUID  
ODOUR AND APPEARANCE: FRAGRANCE FREE, BLUE LIQUID  
ODOUR THRESHOLD: NOT AVAILABLE  
SPECIFIC GRAVITY: 1-1.004  
VAPOUR PRESSURE : NOT AVAILABLE  
VAPOUR DENSITY (AIR=1): NOT AVAILABLE  
VOC CONTENT (%): 1.2-1.3 (EPA METHOD 24)  
EVAPORATION RATE; NOT AVAILABLE  
BOILING POINT; 100 °C ( 212 °F)  
PH: 8-8.5  
FREEZING POINT: NOT AVAILABLE  
DENSITY (g/ ml): 1-1.004  
COEFFICIENT OF WATER/OIL DISTRIBUTION.: COMPLETELY WATER SOLUBLE

## SECTION 10: STABILITY AND REACTIVITY

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

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## SECTION 11: TOXICOLOGICAL INFORMATION

IRRITANCY OF PRODUCT: MODERATE IRRITANT  
SENSITIZATION TO MATERIAL: NOT AVAILABLE  
CARCINOGENICITY,: NO KNOWN CARCINOGENS LISTED BY OSHA, IARC OR NTP.  
REPRODUCTIVE EFFECTS: NO KNOWN REPRODUCTIVE EFFECTS FOLLOWING OCCUPATIONAL EXPOSURE TO ETHANOL. NOT EXPECTED UNDER NORMAL USE.  
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 UNDER NORMAL USE. DIMETHYL OCTYL AMINE COMPONENT IS NEGATIVE FOR TERATOGENICITY. NEONATAL AND MATERNAL ADVERSE EFFECTS OBSERVED IN ANIMALS DOSED AT 2000 ppm OF ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE COMPONENT. DI DECYL DIMETHYL AMMONIUM CHLORIDE COMPONENT SHOWED NO EVIDENCE OF DEVELOPMENTAL TOXICITY EFFECTS AT EXPOSURE DOSES RANGING FROM 10-50 mg/ Kg/ DAY ADMINISTERED FROM DAY 6 TO DAY 18 OF GESTATION.  
MUTAGENICITY: DIMETHYL OCTYL AMINE AND ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE COMPONENTS ARE NEGATIVE FOR MUTAGENICITY.  
TOXICOLOGICALLY SYNERGISTIC PRODUCTS: ETHANOL APPEARS TO ENHANCE THE TOXICITY OF OTHER ALCOHOLS, KETONES, BENZENE, TOLUENE, HALOGENATED HYDROCARBONS, AROMATIC AMINES AND NITROSAMINES. NOT EXPECTED UNDER NORMAL USE CONDITIONS.  
OTHER INFORMATION: ETHANOL COMPONENT CAN BE EXCRETED THROUGH BREAST MILK.

## SECTION 12: ECOLOGICAL INFORMATION

THERE IS NO ECOLOGICAL INFORMATION AVAILABLE FOR PRODUCT. INDIVIDUAL COMPONENT INFORMATION (AS AVAILABLE) ONLY. ECOTOXICOLOGICAL INFORMATION TO FOLLOW IS BASED LARGELY OR COMPLETELY ON INFORMATION FOR COMPONENTS EXPRESSED ON A 100% ACTIVE INGREDIENT BASIS.

ECOTOXICOLOGICAL INFORMATION : ACUTE AQUATIC TOXICITY:

FISH SPECIES DATA: ETHANOL LC 50,24 HR, FINGERLING TROUT : 11200 mg/ L  
ETHANOL LC 50, 96 HR, RAINBOW TROUT (30 DAYS OLD) : 12900 mg/ L  
ETHANOL LC 50, 96 HR, FATHEAD MINNOW : 14200 mg/ L  
ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE LC50, 96 HR, BLUEGILL: 0.52 mg/ L  
ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE LC50, 96 HR, RAINBOW TROUT: 0.93 mg/ L  
DIDECYL DIMETHYL AMMONIUM CHLORIDE, EC 50, 48 HR, DAPHNIA MAGNA: 0.058 mg/ L  
CRUSTACEANS DATA: NO DATA  
(GROWTH INHIBITION) PLANTS DATA: NO DATA  
MICROORGANISMS: NO DATA  
BIODEGRADABILITY: ETHANOL COMPONENT IS READILY BIODEGRADABLE.  
MOBILITY: NOT AVAILABLE  
PERSISTENCE: NOT AVAILABLE  
BIOACCUMULATIVE: ETHANOL COMPONENT IS NOT EXPECTED TO BIO ACCUMULATE.  
CHEMICAL FATE INFORMATION: NOT AVAILABLE  
OTHER INFORMATION: NOT AVAILABLE

## SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL..... IN ACCORDANCE WITH MUNICIPAL, PROVINCIAL AND FEDERAL REGULATIONS.

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## SECTION 14: TRANSPORT INFORMATION

TDG (CANADA):	NOT REGULATED UNDER TDG
ADDITIONAL INFORMATION:	NOT AVAILABLE
MARINE POLLUTANT:	NO

## SECTION 15: REGULATORY INFORMATION

DSL STATUS:	LISTED
WHMIS CLASSIFICATION:	PRODUCT IS A REGISTERED PRODUCT UNDER TPD WITH DIN- NOT WHMIS CONTROLLED (D2B)

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR ( CONTROLLED PRODUCTS REGULATIONS) AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

## 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.