



# MATERIAL SAFETY DATA SHEET

## ENVIRO CHEM LIQUI-BAC

### SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER'S NAME : ROCHESTER MIDLAND LIMITED  
 MANUFACTURERS ADDRESS : 851 PROGRESS COURT  
 OAKVILLE, ONTARIO  
 EMERGENCY PHONE NUMBER: IN CANADA: CANUTEC (613) 996-6666  
 SUPPLIER IDENTIFIER: NOT AVAILABLE  
 SUPPLIER'S ADDRESS: NOT AVAILABLE  
 SUPPLIER EMERGENCY  
 PHONE NUMBER: NOT AVAILABLE  
 PRODUCT NAME : ENVIROCHEM LIQUI-BAC  
 PRODUCT USE : DIGESTS AND LIQUEFIES ORGANIC WASTE, GREASE AND FOOD  
 WHMIS CATEGORY: D2B  
 PREPARED BY : ROCHESTER MIDLAND LIMITED.  
 PHONE NUMBER OF PREPARER: (905) 847-3000  
 DATE PREPARED: APRIL 30, 2005

### SECTION 02: COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	%	CAS#	EXPOSURE LEVELS	LD (50), ROUTE, SPECIES	LC(50), ROUTE, SPECIES
NO HAZARDOUS INGREDIENTS UNDER WHMIS.					
OTHER INGREDIENTS	%	CAS#	EXPOSURE LEVELS	LD (50), ROUTE, SPECIES	LC(50), ROUTE, SPECIES
VIALB BACTERIAL CULTURES	3-7	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE

### SECTION 03: HAZARDS IDENTIFICATION

#### POTENTIAL ACUTE HEALTH EFFECTS:

ROUTE OF ENTRY: EYES, SKIN, INHALATION, INGESTION  
 SKIN CONTACT: PROLONGED OR REPEATED CONTACT MAY CAUSE IRRITATION. ORGANISMS USED ARE NON-PATHOGENIC BUT CAN CAUSE INFECTION WHEN IN CONTACT WITH OPEN WOUNDS OR BROKEN SKIN. THESE ORGANISMS ARE SUSCEPTIBLE TO MANY COMMONLY -USED ANTIBIOTICS.  
 SKIN ABSORPTION : SYSTEMATICALLY TOXIC CONCENTRATIONS WILL PROBABLY NOT BE ABSORBED THROUGH THE SKIN.  
 EYE: DIRECT CONTACT MAY CAUSE IRRITATION.  
 INHALATION: MAY CAUSE IRRITATION, COUGHING, CONGESTION. INDIVIDUALS SENSITIVE TO ENZYME PRODUCTS MAY DEVELOP ALLERGIC RESPIRATORY SYMPTOMS IF ENZYME MISTS ARE INHALED.  
 INGESTION: SMALL AMOUNTS OR SINGLE DOSE SHOULD HAVE LITTLE OR NO TOXIC EFFECT. MAY CAUSE IRRITATION TO MOUTH, THROAT OR DIGESTIVE TRACT.  
 ACUTE OVER-EXPOSURE  
 EFFECTS: INDIVIDUALS WITH A HISTORY OF DERMAL ALLERGIC REACTION MAY EXPERIENCE SLIGHT REDNESS ON HANDS AND FOREARMS. ENZYME SENSITIVE INDIVIDUALS MAY EXPERIENCE A RESPIRATORY OR ALLERGIC RESPONSE TO INHALATION OF MISTS.  
 CHRONIC OVER EXPOSURE  
 EFFECTS: DERMATITIS AND SKIN SENSITIZATION CAN DEVELOP AFTER REPEATED AND/ OR PROLONGED CONTACT.

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## SECTION 04: FIRST AID MEASURES

EYES: **DO NOT RUB 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 WATER. REMOVE CONTAMINATED CLOTHING. IF SYMPTOMS PERSIST, GET MEDICAL ATTENTION.

INHALATION: REMOVE VICTIM TO FRESH AIR. ASSIST BREATHING AS NEEDED. IF SYMPTOMS PERSIST, 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

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

MEANS OF EXTINCTION: USE WATER SPRAY, DRY CHEMICAL OR FOAM.

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.

HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF CARBON

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: REMOVE UNPROTECTED PERSONNEL AWAY FROM SPILL AREA. VENTILATE AREA. CLEANUP PERSONNEL MUST WEAR APPROPRIATE EQUIPMENT AS OUTLINED ABOVE. CAUTION: SPILL AREA MAY BE SLIPPERY.

SMALL SPILLS: MOP UP, FLUSH RESIDUE WITH WATER.

LARGE SPILLS: DIKE SPILL. RECLAIM ALL MATERIAL POSSIBLE. ABSORB REMAINDER WITH INERT MATERIAL AND PLACE IN SUITABLE CONTAINERS FOR DISPOSAL. FLUSH RESIDUE WITH WATER. CLEAN SPILL AREA WITH DETERGENT AND WATER.

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## SECTION 07: HANDLING AND STORAGE

### HANDLING PROCEDURES

AND EQUIPMENT: DO NOT GENERATE / BREATHE MISTS. AVOID CONTACT WITH EYES AND PROLONGED OR REPEATED SKIN CONTACT. REMOVE CONTAMINATED CLOTHING AND LAUNDRY BEFORE REUSE. AVOID CONTACT WITH OPEN WOUNDS OR BROKEN SKIN. WASH SKIN THOROUGHLY WITH SOAP AND WATER AFTER USE. KEEP CONTAINER CLOSED WHEN NOT IN USE.

### STORAGE

REQUIREMENTS: KEEP OUT OF REACH OF CHILDREN. STORE AWAY FROM FOOD ITEMS AND POTABLE WATER SYSTEMS. STORE IN A COOL WELL VENTILATED AREA . ( MIN 5 °C MAX 40 °C). AVOID PROLONGED EXPOSURES TO TEMPERATURE EXTREMES TO MAINTAIN SHELF LIFE.

## SECTION 08: EXPOSURE CONTROLS/ PERSONAL PROTECTION

EYE PROTECTION: WEAR CHEMICAL SAFETY GOGGLES.

RESPIRATORY PROTECTION: NONE NORMALLY REQUIRED. USE NIOSH APPROVED RESPIRATOR IF SPRAY MIST CAUSES IRRITATION.

GLOVES: WEAR RUBBER, NEOPRENE OR VINYL GLOVES. INCIDENTAL SKIN CONTACT IS NOT EXPECTED TO CAUSE ANY SIGNIFICANT IRRITATION.

OTHER PROTECTIVE EQUIPMENT: AS NEEDED TO PREVENT PROLONGED OR REPEATED CONTACT WITH PRODUCT.

SPECIFIC ENGINEERING CONTROLS:..... NONE NORMALLY REQUIRED. USE GENERAL MECHANICAL AND / OR LOCAL EXHAUST AS NEEDED IF MIST IN THE AIR.

## SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	LIQUID
ODOUR AND APPEARANCE:	OPAQUE WHITE LIQUID WITH PLEASANT FRAGRANCE.
ODOUR THRESHOLD:	NOT AVAILABLE
SPECIFIC GRAVITY:	1.02-1.05
VAPOUR PRESSURE :	AS WATER
VAPOUR DENSITY (AIR=1):	AS WATER
VOC CONTENT ( % ):	NOT AVAILABLE
EVAPORATION RATE;	AS WATER
BOILING POINT;	100 ° C ( 212 ° F )
PH:	8-9
FREEZING POINT:	0 ° C (32 ° F) ( VIABLE BACTERIAL CULTURES WILL DIE AT LOW TEMPERATURES )
DENSITY (g/ ml):	1.02-1.05
COEFFICIENT OF WATER/OIL DISTRIBUTION:.	COMPLETELY WATER SOLUBLE

## SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: STABLE

INCOMPATIBLE MATERIALS: AVOID STRONG ACIDS OR ALKALIS AS MAY INACTIVATE BACTERIAL CULTURES.

CONDITIONS OF REACTIVITY: AVOID TEMPERATURE EXTREMES AS VIABLE BACTERIAL CULTURES MAY BE AFFECTED.

HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF CARBON

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## SECTION 11: TOXICOLOGICAL INFORMATION

IRRITANCY OF PRODUCT: MINIMAL IRRITANT  
SENSITIZATION TO MATERIAL: INDIVIDUALS WITH A HISTORY OF DERMAL ALLERGIC REACTION MAY EXPERIENCE SLIGHT REDNESS ON HANDS AND FOREARMS. ENZYME SENSITIVE INDIVIDUALS MAY EXPERIENCE A RESPIRATORY OR ALLERGIC RESPONSE TO INHALATION OF MISTS.  
CARCINOGENICITY,: NO KNOWN CARCINOGENS LISTED BY OSHA, IARC OR NTP.  
REPRODUCTIVE EFFECTS: NO KNOWN REPRODUCTIVE EFFECTS.  
TERATOGENICITY: NOT AVAILABLE.  
MUTAGENICITY: NOT AVAILABLE  
TOXICOLOGICALLY SYNERGISTIC PRODUCTS: NOT AVAILABLE.

## 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 ON A 100% ACTIVE INGREDIENT BASIS.

### ECOTOXICOLOGICAL INFORMATION:

AQUATIC TOXICITY: FISH SPECIES DATA: NO DATA  
AQUATIC TOXICITY: INVERTEBRATES: NOT DATA  
AQUATIC TOXICITY: (GROWTH INHIBITION) PLANTS: NO DATA  
ACUTE AQUATIC TOXICITY: MICROORGANISMS: NO DATA  
BIODEGRADABILITY: PRODUCT IS EXPECTED TO READILY BIODEGRADE.  
MOBILITY: NOT AVAILABLE.  
PERSISTENCE: NOT AVAILABLE  
BIOACCUMULATIVE: NOT AVAILABLE  
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 (CANADA): NOT REGULATED UNDER TDG  
ADDITIONAL INFORMATION: NOT AVAILABLE  
MARINE POLLUTANT: NO

## SECTION 15: REGULATORY INFORMATION:

DSL STATUS: LISTED  
WHMIS CLASSIFICATION: 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.