



MATERIAL SAFETY DATA SHEET

KEM CANADA MFG.
4 BLAIR DRIVE
BRAMPTON, ONTARIO
L6T 2H5
TEL# (905) 456-9444

EMERGENCY # CANUTEC (613) 996-6666
"USE IN CASE OF CHEMICAL EMERGENCY ONLY"

W.H.M.I.S. CLASSIFICATION: D2B

MATERIAL REFERENCE NO: 235700

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: LIQUIDATE	
CHEMICAL NAME: ENZYMES	CHEMICAL FAMILY: BACTERIAL CULTURE
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: MIXTURE
SYNONYMS: NONE	
MATERIAL USE: LIQUID ORGANIC WASTE DIGESTER	

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. CONCENT.	TLV PPM	C.A.S. NUMBERS	LD 50 ORAL, RAT
ALCOHOL ETHOXYLATE	1.0-5.0	NOT AVAILABLE	68131-39-5	2000 MG/KG
VIABLE BACTERIA CULTURES	1.0-5.0	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID		
ODOUR AND APPEARANCE: WHITE TURBID LIQUID, CHERRY ODOUR.		
ODOUR THRESHOLD (PPM)	SPECIFIC GRAVITY	VAPOUR PRESSURE (MM)
NOT AVAILABLE	1.001	



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SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

FLAMMABILITY: NON-FLAMMABLE			
IF YES, UNDER WHICH CONDITIONS:			
MEANS OF EXTINCTION: WATER FOG, FOAM, DRY CHEMICAL, CARBON DIOXIDE			
SPECIAL PROCEDURES: WEAR FULL PROTECTIVE EQUIPMENT INCLUDING SELF-			
CONTAINED BREATHING APPARATUS.			
FLASH POINT (C) AND METHOD: NONE (TCC)			
HAZARDOUS COMBUSTION PRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE,			
IRRITATING FUMES, UNIDENTIFIED ORGANICS.			
UPPER EXPLOSION LIMIT	LOWER EXPLOSION LIMIT	AUTOIGNITION TEMP (C)	
NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	
EXPLOSION DATA SENSITIVITY			
TO CHEMICAL IMPACT			
NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	
SENSITIVITY TO STATIC DISCHARGE: NOT AVAILABLE			

SECTION V - REACTIVITY DATA

CHEMICAL STABILITY: STABLE			
IF NO, UNDER WHICH CONDITIONS:			
INCOMPATIBILITY TO OTHER SUBSTANCES: YES			
IF SO, WHICH ONES: STRONG ACIDS AND STRONG ALKALIS, STRONG OXIDIZING			
AGENTS.			
REACTIVITY AND UNDER WHAT CONDITIONS: STRONG ACIDS AND STRONG ALKALI			
CAN INACTIVATE BIOLOGICAL CULTURES.			
HAZARDOUS POLYMERIZATION WILL NOT OCCUR.			
HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION WILL EMIT			
OXIDES OF CARBON, IRRITATING FUMES, UNIDENTIFIED ORGANICS.			

SECTION VI - HEALTH HAZARD DATA

ROUTE OF ENTRY:			
SKIN CONTACT: YES			
SKIN ABSORPTION: YES			
EYE CONTACT: YES			
INHALATION: NO			
INGESTION: YES			



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| EFFECTS OF ACUTE EXPOSURE TO MATERIAL: |
| EYES-MAY CAUSE IRRITATION. MAY CAUSE INFECTION WHEN IN CONTACT WITH |
| OPEN WOUNDS. |
| SKIN-CONTACT MAY CAUSE SLIGHT REDNESS ON HANDS AND FOREARMS IF |
| INDIVIDUAL HAS A HISTORY OF DERMAL ALLERGIC REACTION. |
| SKIN ABSORPTION-SYSTEMIC TOXIC CONCENTRATIONS WILL PROBABLY NOT BE |
| ABSORBED THROUGH THE SKIN. |
| INGESTION-SWALLOWING OF LARGE AMOUNTS MAY CAUSE GASTROINTESTINAL |
| IRRITATION, NAUSEA, VOMITING, DIARRHEA. |
| |

| EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: |
| SKIN-REPEATED OR PROLONGED CONTACT CAN CAUSE DERMATITIS AND SKIN |
| SENSITIZATION. |
| |
| |

| LD 50 OF MATL. | LC 50 OF MATL. | EXPOSURE LIMIT(S) | IRRITANCY OF MATL |
| NOT AVAILABLE | NOT AVAILABLE | NONE KNOWN | MILD |

| SENSITIZATION OF MATERIAL | SYNERGISTIC MATERIALS |
| CRONIC EXPOSURE CAN SENSITIZE SKIN | NOT AVAILABLE |

| CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY |
| NONE KNOWN |
| |

SECTION VII - PREVENTIVE MEASURES

| PERSONAL PROTECTIVE EQUIPMENT: |

| GLOVES: IMPERMEABLE RECOMMENDED |
| RESPIRATORY: NOT NORMALLY REQUIRED. |
| EYE: SAFETY GOGGLES RECOMMENDED |
| FOOTWEAR: NO SPECIAL REQUIREMENTS |
| CLOTHING: NO SPECIAL REQUIREMENTS |
| OTHER: EYE WASH AND SAFETY SHOWER |
| ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): PROVIDE |
| LOCAL OR MECHANICAL VENTILATION IN CONFINED OR POORLY VENTILATED |
| AREAS. |

| LEAK AND SPILL PROCEDURE: PROVIDE ADEQUATE VENTILATION. CONTAIN |
| SPILL. IF POSSIBLE, FLUSH TO WASTE TREATMENT SEWER OR TRANSFER TO |
| SUITABLE CONTAINER FOR REUSE OR DISPOSAL. ABSORB REMAINING MATERIAL |
| ONTO ABSORBENT AND SCOOP INTO DISPOSAL CONTAINER. FLUSH RESIDUAL |
| WITH VOLUMES OF WATER. |

| WASTE DISPOSAL: DISPOSE IN ACCORDANCE WITH FEDERAL, PROVINCIAL AND |
| LOCAL REGULATIONS. |
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SECTION VIII - FIRST AID MEASURES

PROCEDURES:
EYES-FLUSH WITH WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. HAVE EYES EXAMINED AND TREATED BY A PHYSICIAN.
SKIN-REMOVE CONTAMINATED CLOTHING AND WASH AFFECTED AREA THOROUGHLY WITH SOAP AND WATER. GET MEDICAL ATTENTION IF SYMPTOMS OCCUR. WASH CLOTHING BEFORE REUSE.
INGESTION-DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON. GET MEDICAL ATTENTION.

SOURCES USED: RAW MATERIAL SUPPLIER'S MATERIAL SAFETY DATA SHEETS.

ADDITIONAL INFORMATION: NONE

SECTION IX - TDG SHIPPING INFORMATION

SHIPPING NAME	CLASS	UN NO.	PACKING GROUP
NOT REGULATED			

HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH EYES AND SKIN. AVOID CONTACT WITH OPEN WOUNDS. WASH THOROUGHLY AFTER HANDLING.

STORAGE REQUIREMENTS: AVOID PROLONGED EXPOSURE TO TEMPERATURES ABOVE 45(C). KEEP FROM FREEZING.

SPECIAL SHIPPING INFORMATION: KEEP FROM FREEZING

SECTION X - HMIS HAZARD RATING INFORMATION

FLAMMABILITY	REACTIVITY	HEALTH
0	0	1

SECTION XI - PREPARATION DATE OF MSDS

PREPARED BY: TECHNICAL DEPARTMENT	TELEPHONE # (905) 456-9444
REVISED: OCTOBER 4, 2009	REPLACES: OCTOBER 23/06

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