



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, E

MATERIAL REFERENCE NO: 515600

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KEMTREET CO-POLYMER 156	
CHEMICAL NAME: NOT APPLICABLE	CHEMICAL FAMILY: ALKALINE BLEND
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: MIXTURE
SYNONYMS: NONE	
MATERIAL USE: CORROSION AND SCALE PREVENTION	

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. % CONCENT.	TLV PPM	C.A.S. NUMBERS	LD 50 ORAL, RAT
SODIUM HYDROXIDE	1.0-5.0	2 MG/M3	1310-73-2	500 MG/KG
				(LDLo RABBIT)
2-PHOSPHONO-1,2,4- BUTANE-TRICARBOXILIC ACID	1.0-5.0	NO DATA	37971-36-1	>2000 MG/KG
2-HYDROXYPHOSPHONO- ACETIC ACID	1.0-5.0	NO DATA	23783-26-8	2766 MG/KG

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID		
ODOUR AND APPEARANCE: CLEAR, AMBER LIQUID, LOW ODOUR.		
ODOUR THRESHOLD (PPM) NOT AVAILABLE	SPECIFIC GRAVITY 1.03	VAPOUR PRESSURE (MM) NOT AVAILABLE
VAPOUR DENSITY (AIR=1) APPROXIMATELY 1	EVAPORATION RATE (WATER=1) 0.9	SOLUBILITY IN WATER (20 ° C) SOLUBLE
BOILING POINT (C) >100	FREEZING POINT (C) APPROX. 0 C	% VOLATILE (BY WEIGHT) > 90
pH (CONCENTRATED) 11.0-12.0	DENSITY (G/ML) NOT APPLICABLE	COEF.OF WATER/OIL DISTR NOT AVAILABLE



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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, CARBON DIOXIDE, DRY CHEMICAL, FOAM. |

| SPECIAL PROCEDURES: WEAR FULL PROTECTIVE EQUIPMENT, INCLUDING SELF-
| CONTAINED BREATHING APPARATUS. |

| FLASH POINT (C) AND METHOD: NONE (TCC) |

| HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF CARBON, PHOSPHOROUS,
| NITROGEN, TOXIC ORGANIC VAPOURS AND FUMES. |

| UPPER EXPLOSION LIMIT | LOWER EXPLOSION LIMIT | AUTOIGNITION TEMP (C) |
| NOT APPLICABLE | NOT APPLICABLE | NOT AVAILABLE |

EXPLOSION DATA SENSITIVITY	RATE OF BURNING	EXPLOSIVE POWER
TO CHEMICAL IMPACT		
NOT AVAILABLE	NOT APPLICABLE	NOT AVAILABLE

| 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: ACIDS, STRONG OXIDIZERS. REACTIVE METALS (i.e.
| ALUMINUM, MILD STEEL |

| REACTIVITY AND UNDER WHAT CONDITIONS: NOT ESTABLISHED |

| HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION CAN RELEASE
| OXIDES OF CARBON, PHOSPHOROUS, NITROGEN, TOXIC ORGANIC VAPOURS AND
| FUMES. |

SECTION VI - HEALTH HAZARD DATA

| ROUTE OF ENTRY: |

| SKIN CONTACT: YES SKIN ABSORPTION: YES EYE CONTACT: YES |
| INHALATION: YES INGESTION: YES |



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| EFFECTS OF ACUTE EXPOSURE TO MATERIAL: |
 | EYES-CONTACT CAN CAUSE MODERATE TO SEVERE IRRITATION. MAY CAUSE EYE |
 | DAMAGE. |
 | SKIN-CONTACT CAN CAUSE MODERATE IRRITATION. |
 | INHALATION-EXCESSIVE INHALATION OF MISTS OR VAPOURS CAN CAUSE |
 | IRRITATION OF RESPIRATORY TRACT. |
 | INGESTION-CAN CAUSE MODERATE IRRITATION OF GASTROINTESTINAL TRACT, |
 | NAUSEA, VOMITING. |
 | |

| EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: |
 | NONE KNOWN |
 | |
 | |
 | |

LD 50 OF MATL.	LC 50 OF MATL.	EXPOSURE LIMIT(S)	IRRITANCY OF MATL
NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	MODERATE

SENSITIZATION OF MATERIAL	SYNERGISTIC MATERIALS
NOT AVAILABLE	NOT AVAILABLE

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

SECTION VII - PREVENTIVE MEASURES

| PERSONAL PROTECTIVE EQUIPMENT: |

| GLOVES: IMPERMEABLE |
 | RESPIRATORY: NONE FOR NORMAL USE. NIOSH APPROVED RESPIRATOR IN |
 | CONFINED AREAS OR IF TLV IS EXCEEDED. |
 | EYE: SAFETY GLASSES |
 | FOOTWEAR: IMPERMEABLE |
 | CLOTHING: IMPERMEABLE |
 | OTHER: EYE WASH AND SAFETY SHOWER |
 | ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): GENERAL |
 | IS NORMALLY SUFFICIENT. PROVIDE LOCAL VENTILATION IN CONFINED OR |
 | POORLY VENTILATED AREAS TO MAINTAIN EXPOSURES WITHIN ACCEPTABLE |
 | LIMITS. |

| LEAK AND SPILL PROCEDURE: CONTAIN SPILL. WEAR RECOMMENDED SAFETY |
 | EQUIPMENT. TRANSFER TO SUITABLE, LABELED CONTAINER FOR RECLAIM OR |
 | DISPOSAL. ABSORB REMAINING MATERIAL ONTO INERT ABSORBANT AND PLACE |
 | IN CONTAINER FOR DISPOSAL. FLUSH RESIDUAL WITH VOLUMES OF WATER. |

| WASTE DISPOSAL: DISPOSE OF IN ACCORDANCE WITH FEDERAL, PROVINCIAL |
 | AND LOCAL REGULATIONS. |



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SECTION VIII - FIRST AID MEASURES

PROCEDURES:
EYES-FLUSH WITH RUNNING WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.
SKIN-FLUSH AFFECTED AREA WITH RUNNING WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. LAUNDRER CLOTHING BEFORE REUSE.
INHALATION-REMOVE TO FRESH AIR. IF SYMPTOMS PERSIST, GET MEDICAL ATTENTION.
INGESTION-IF INGESTED DO NOT INDUCE VOMITING. GIVE WATER TO DILUTE STOMACH CONTENTS. DO NOT GIVE FLUIDS IF PERSON IS UNCONSCIOUS OR CONVULSING. GET IMMEDIATE 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
CORROSIVE LIQUID, N.O.S. (SODIUM HYDROXIDE)	8	1760	III

HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH EYES, SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING.

STORAGE REQUIREMENTS: STORE IN A COOL, DRY, WELL-VENTILATED AREA. KEEP FROM FREEZING.

SPECIAL SHIPPING INFORMATION: HEATED

SECTION X - HMIS HAZARD RATING INFORMATION

FLAMMABILITY	REACTIVITY	HEALTH
0	0	2

SECTION XI - PREPARATION DATE OF MSDS

PREPARED BY: TECHNICAL DEPARTMENT TELEPHONE # (905) 456-9444
REVISED: OCTOBER 10, 2009 REPLACES: NOVEMBER 23, 2005

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