



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: 505600

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KEMTREET CO-POLYMER 56	
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-	1.0-5.0	NO DATA	37971-36-1	>2000 MG/KG
BUTANE-TRICARBOXILIC				
ACID				
2-HYDROXYPHOSPHONO-	1.0-5.0	NO DATA	23783-26-8	2766 MG/KG
ACETIC ACID				
2-PROPENOIC ACID POLY-	1.0-5.0	NO DATA	71050-62-9	>5000 MG/KG
POLYMER WITH SODIUM				
PHOSPHINATE				

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID	
ODOUR AND APPEARANCE: CLEAR, AMBER LIQUID, LOW ODOUR.	
ODOUR THRESHOLD (PPM)	SPECIFIC GRAVITY
NOT AVAILABLE	1.055
VAPOUR DENSITY (AIR=1)	EVAPORATION RATE
APPROXIMATELY 1	(WATER=1) 0.9
SOLUBILITY IN WATER	
(20 ° C) SOLUBLE	
BOILING POINT (C)	FREEZING POINT (C)
100	APPROX. 0 C
% VOLATILE (BY WEIGHT)	
> 85	
pH (CONCENTRATED)	DENSITY (G/ML)
11.0-12.0	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. LAUNDRY 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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