



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: E

MATERIAL REFERENCE NO: 701000

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KEMTREET SX-11	
CHEMICAL NAME: NOT APPLICABLE	CHEMICAL FAMILY: ACID BLEND
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: NOT APPLICABLE
SYNONYMS: NONE	
MATERIAL USE: SCALE REMOVAL FROM HEATING AND COOLING SYSTEMS	

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. CONCENT.	TLV PPM	C.A.S. NUMBERS	LD 50 ORAL, RAT
PHOSPHORIC ACID	40.0-70.0	1 MG/M3	7664-38-2	1530 MG/KG
CITRIC ACID	5.0-10.0	NO DATA	77-92-9	3000 MG/KG

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID	
ODOUR AND APPEARANCE: DARK RED, SEMI-VISCOUS LIQUID, LOW ODOUR.	
ODOUR THRESHOLD (PPM)	SPECIFIC GRAVITY
NOT AVAILABLE	1.45
VAPOUR DENSITY (AIR=1)	EVAPORATION RATE
> 1	< 1
SOLUBILITY IN WATER	
(20 ° C) COMPLETE	
BOILING POINT (C)	FREEZING POINT (C)
100	NOT AVAILABLE
% VOLATILE (BY WEIGHT)	
42	
pH (1.0% SOLUTION)	DENSITY (G/ML)
1.2-1.3	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, CHEMICAL FOAM, CARBON DIOXIDE			
SPECIAL PROCEDURES: WEAR FULL PROTECTIVE GEAR INCLUDING SELF			
CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH			
WATER.			
FLASH POINT (C) AND METHOD: NONE (TCC)			
HAZARDOUS COMBUSTION PRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE,			
PHOSPHOROUS OXIDE, TOXIC FUMES.			
UPPER EXPLOSION LIMIT	LOWER EXPLOSION LIMIT	AUTOIGNITION TEMP (C)	
NOT APPLICABLE	NOT APPLICABLE	NOT AVAILABLE	
EXPLOSION DATA SENSITIVITY			
TO CHEMICAL IMPACT	RATE OF BURNING	EXPLOSIVE POWER	
NOT AVAILABLE	NOT APPLICABLE	NOT AVAILABLE	
SENSITIVITY TO STATIC DISCHARGE: NOT APPLICABLE			

SECTION V - REACTIVITY DATA

CHEMICAL STABILITY: STABLE			
IF NO, UNDER WHICH CONDITIONS:			
HAZARDOUS POLYMERIZATION WILL NOT OCCUR.			
INCOMPATIBILITY TO OTHER SUBSTANCES: YES			
IF SO, WHICH ONES: STRONG OXIDIZING AGENTS, STRONG REDUCING AGENTS,			
STRONG BASES, METALS, SULPHUR TRIOXIDE, PHOSPHOROUS PENTOXIDE,			
CARBON.			
REACTIVITY AND UNDER WHAT CONDITIONS: REACTS VIGOROUSLY WITH			
ALKALIES. REACTS WITH MILD STEEL (AND SOME OTHER METALS) TO RELEASE			
HYDROGEN.			
HAZARDOUS DECOMPOSITION PRODUCTS: MAY EVOLVE OXIDES OF PHOSPHOROUS			
AND CARBON.			

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-CORROSIVE TO EYE TISSUE AND MAY CAUSE SEVERE DAMAGE AND |
|BLINDNESS. |
|SKIN-CONTACT CAUSES BURNS. MAY CAUSE SEVERE IRRITATION, INFLAMMATION |
|PAINFUL BLISTERS. |
|INHALATION-MAY CAUSE IRRITATION OF UPPER RESPIRATORY TRACT, COUGHING |
|SHORTNESS OF BREATH, HEADACHES. VAPOURS MAY CAUSE PULMONARY EDEMA. |
|INGESTION-CORROSIVE. MAY CAUSE SEVERE PAIN IN MOUTH, CHEST AND |
|ABDOMEN, LEADING TO COUGH, VOMITING AND COLLAPSE. CAUSES NAUSEA, |
|VOMITING AND DIARRHEA. |

|EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: |
|SKIN-DERMATITIS MAY OCCUR FROM PROLONGED OR REPEATED EXPOSURES. |
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|LD 50 OF MATL. |LC 50 OF MATL. |EXPOSURE LIMIT(S) |IRRITANCY OF MATL |
|NOT AVAILABLE |NOT AVAILABLE | NOT AVAILABLE | CORROSIVE |

|SENSITIZATION OF MATERIAL | SYNERGISTIC MATERIALS |
| NOT AVAILABLE | NOT AVAILABLE |

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

SECTION VII - PREVENTIVE MEASURES

|PERSONAL PROTECTIVE EQUIPMENT: |

| GLOVES: RUBBER |
|RESPIRATORY: IF MIST IS PRESENT |
| EYE: FACE SHIELD OR CHEMICAL GOGGLES |
| FOOTWEAR: RUBBER |
| CLOTHING: RUBBER APRON |
| OTHER: EYE WASH AND SAFETY SHOWER |
|ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): LOCAL |
| VENTILATION IF MIST IS PRESENT. |

|LEAK AND SPILL PROCEDURE: CONTAIN SPILL. WEAR RECOMMENDED PROTECTIVE |
|EQUIPMENT. PREVENT ENTRY INTO SEWERS AND STREAMS. TRANSFER TO |
|SUITABLE CONTAINER FOR REUSE OR DISPOSAL. NEUTRALIZE RESIDUAL WITH |
|LIME SLURRY, LIMESTONE OR SODA ASH. ABSORB ONTO INERT DRY MATERIAL |
|AND SCOOP INTO DISPOSAL CONTAINER. FLUSH FLOOR WITH VOLUMES OF WATER |

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



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SECTION VIII - FIRST AID MEASURES

PROCEDURES:
EYES-IMMEDIATELY FLUSH WITH GENTLY FLOWING WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN.GET PROMP MEDICAL ATTENTION.
SKIN-REMOVE CONTAMINATED CLOTHING AND IMMEDIATELY FLUSH AFFECTED AREA WITH WATER FOR AT LEAST 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION. LAUNDER CLOTHING BEFORE RE-USE.
INHALATION-REMOVE VICTIM TO FRESH AIR. IF BREATHING IS DIFFICULT, GET IMMEDIATE MEDICAL ATTENTION.
INGESTION-DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. GIVE 2 GLASSES OF WATER IF VICTIM IS CONSCIOUS AND NOT CONVULSING. CONTACT A PHYSICIAN IMMEDIATELY.
SOURCES USED: RAW MATERIAL SUPPLIER'S MATERIAL SAFETY DATA SHEETS.
ADDITIONAL INFORMATION: NONE

SECTION IX - TDG SHIPPING INFORMATION

SHIPPING NAME	CLASS	UN NO.	PG
CORROSIVE LIQUID, N.O.S. (PHOSPHORIC ACID)	8	1760	III

HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH EYES, SKIN AND CLOTHING. WEAR RECOMMENDED PROTECTIVE EQUIPMENT. WASH THOROUGHLY AFTER HANDLING.
STORAGE REQUIREMENTS: STORE IN A COOL, DRY, WELL-VENTILATED AREA. KEEP AWAY FROM INCOMPATIBLE MATERIALS. KEEP CONTAINER CLOSED WHEN NOT IN USE.
SPECIAL SHIPPING INFORMATION: KEEP FROM FREEZING

SECTION X - HMIS HAZARD RATING INFORMATION

FLAMMABILITY	REACTIVITY	HEALTH
0	2	3

SECTION XI - PREPARATION DATE OF MSDS

PREPARED BY: TECHNICAL DEPARTMENT TELEPHONE # (905) 456-9444
REVISED: OCTOBER 10, 2009 REPLACES: DECEMBER 12, 2005

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