



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: 792800

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KEMTREET 928	
CHEMICAL NAME : NOT APPLICABLE	CHEMICAL FAMILY : ACID BLEND
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: NOT APPLICABLE
SYNONYMS: NONE	
MATERIAL USE: DESCALER	

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. % CONCENT.	TLV PPM	C.A.S. NUMBERS	LD 50 ORAL, RAT
CITRIC ACID	1.0-5.0	NOT AVAILABLE	77-92-9	3000 MG/KG
PHOSPHORIC ACID	10.0-30.0	1 MG/M3	7664-38-2	1530 MG/KG
NONYL PHENOL ETHOXYLATE	1.0-5.0	NOT AVAILABLE	9016-45-9	2.5 MG/KG

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID		
ODOUR AND APPEARANCE: PINK LIQUID; FAINT ODOUR.		
ODOUR THRESHOLD (PPM) NOT APPLICABLE	SPECIFIC GRAVITY 1.14	VAPOUR PRESSURE (MM) NOT AVAILABLE
VAPOUR DENSITY (AIR=1) NOT AVAILABLE	EVAPORATION RATE (WATER = 1) ~1	SOLUBILITY IN WATER (20°C) SOLUBLE
BOILING POINT (C) 100	FREEZING POINT (C) NOT AVAILABLE	% VOLATILE (BY WEIGHT) >75
pH (1.0% SOLUTION) 2.2	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: AS FOR SURROUNDING MATERIALS			
SPECIAL PROCEDURES: WEAR FULL PROTECTIVE GEAR INCLUDING SELF-			
CONTAINED BREATHING APPARATUS.			
FLASH POINT (C) AND METHOD: NONE (TCC)			
HAZARDOUS COMBUSTION PRODUCTS: IN AN INTENSE FIRE MAY GIVE OFF			
PHOSPHORIC OXIDES.			
UPPER EXPLOSION LIMIT LOWER EXPLOSION LIMIT AUTOIGNITION TEMP(C)			
NOT APPLICATION NOT APPLICABLE NONE			
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: NORMALLY STABLE			
IF NO, UNDER WHICH CONDITIONS: VERY HIGH HEAT			
INCOMPATIBILITY TO OTHER SUBSTANCES: YES			
IF SO, WHICH ONES: STRONG ALKALIES, ACTIVE METALS (IE: IRON)			
LIBERATING HYDROGEN WHICH COULD CREATE EXPLOSIVE ATMOSPHERE.			
REACTIVITY AND UNDER WHAT CONDITIONS: NOT ESTABLISHED			
HAZARDOUS POLYMERIZATION WILL NOT OCCUR.			
HAZARDOUS DECOMPOSITION PRODUCTS: SMALL AMOUNTS OF CARBON DIOXIDE,			
CARBON MONOXIDE, POSSIBLE PHOSPHORIC OXIDES IN INTENSE FIRE.			

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-MISTS MAY CAUSE EYE IRRITATION. EXCESSIVE CONTACT CAN CAUSE SEVERE BURNS AND PERMANENT EYE DAMAGE.
SKIN-MAY CAUSE BURNS IF NOT WASHED OFF IMMEDIATELY.
INHALATION-VAPOUR OR MIST MAY CAUSE IRRITATION OF NOSE AND THROAT.
INGESTION-MAY CAUSE BURNS TO MOUTH AND THROAT, PAIN IN STOMACH, DIFFICULTY IN BREATHING, NAUSEA, VOMITING, DIARRHEA AND CONVULSIONS.
IN VERY SEVERE CASES, COLLAPSE AND DEATH.

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:
SKIN-PROLONGED OR REPEATED CONTACT MAY CAUSE DERMATITIS.

LD 50 OF MATL. NOT AVAILABLE	LC 50 OF MATL. NOT AVAILABLE	EXPOSURE LIMIT(S) NOT AVAILABLE	IRRITANCY OF MATL CORROSIVE
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SENSITIZATION OF MATERIAL NOT AVAILABLE	SYNERGISTIC MATERIALS NOT AVAILABLE
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CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY:
NONE KNOWN

SECTION VII - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

GLOVES: RUBBER OR PLASTIC
RESPIRATORY: APPROVED MIST REPIRATOR IF MIST OR VAPOUR IS GENERATED
EYE: CHEMICAL GOGGLES OR SAFETY SHIELD
FOOTWEAR: IMPERMEABLE
CLOTHING: IMPERMEABLE
OTHER: EYE WASH AND SAFETY SHOWER
ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): LOCAL EXHAUST IF MIST OR VAPOUR IS GENERATED.

LEAK AND SPILL PROCEDURE: SMALL SPILLS-CAREFULLY FLUSH WITH WATER.
LARGE SPILLS-CONTAIN SPILL. TRANSFER TO SUITABLE CONTAINER FOR REUSE OR DISPOSAL. NEUTRALIZE RESIDUAL WITH LIMESTONE OR SODA ASH. ABSORB ONTO INERT ABSORBANT AND SCOOP INTO DISPOSAL CONTAINER.

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



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SECTION VIII - FIRST AID MEASURES

PROCEDURES:
EYES-FLUSH WITH RUNNING WATER FOR AT LEAST 20 MINUTES HOLDING EYELIDS OPEN. GET IMMEDIATE MEDICAL ATTENTION.
SKIN-REMOVE CONTAMINATED CLOTHING AND FLUSH AFFECTED AREA WITH RUNNING WATER FOR AT LEAST 20 MINUTES. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. LAUNDER CLOTHING BEFORE REUSE.
INHALATION-REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF NOT BREATHING, ADMINISTER ARTIFICIAL RESPIRATION AND THEN GIVE OXYGEN. GET MEDICAL ATTENTION.
INGESTION-IF SWALLOWED, DO NOT INDUCE VOMITING. GIVE MILK OR WATER IF VOMITING OCCURS GIVE FLUIDS AGAIN. GET IMMEDIATE MEDICAL AID.
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. (PHOSPHORIC ACID)	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 AREA AWAY FROM ALKALIES. 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
REVIEWED: JULY 26, 2003	

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