



# 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: D2A, E

MATERIAL REFERENCE NO: 705000

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KEMTREET 50	
CHEMICAL NAME: NOT APPLICABLE	CHEMICAL FAMILY: ALKALINE BLEND
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: NOT APPLICABLE
SYNONYMS: NONE	
MATERIAL USE: BOILER TREATMENT	

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS   INGREDIENTS	APPROX.   % CONCENT.	TLV   PPM	C.A.S.   NUMBERS	LD 50   ORAL, RAT
SODIUM HYDROXIDE	5.0-10.0	2 MG/M3	1310-73-2	500 MG/KG
SODIUM SULFITE	1.0-5.0	5 MG/M3	7757-83-7	820 MG/KG
2-PROPENOIC ACID   POLYMER, PHOSPHINATE	1.0-5.0	NOT AVAIL	71050-62-9	>5000 MG/KG
2-ACRYLAMIDO-METHYL   ETHYLENE DIAMINE	1.0-5.0	NOT AVAIL	97953-25-8   64-02-8	>3000 MG/KG   3030 MG/KG
TETRA ACETIC ACID   PROPYL SULFONIC POLYMER	1.0-5.0	NOT AVAIL	66019-18-9	>2000 MG/KG
2--PROPENOIC ACID   HOMOPOLYMER	1.0-5.0	NOT AVAIL	23783-26-8	1800 MG/KG
PHOSPHONO - SODIUM   CARBOXYLIC ACID	<3.0	NOT AVAIL		

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID		
ODOUR AND APPEARANCE: DARK BROWN LIQUID; FAINT ACRID ODOUR.		
ODOUR THRESHOLD (PPM)   NO VOLATILE TOXICANTS	SPECIFIC GRAVITY   1.10	VAPOUR PRESSURE (MM)   760 AT 102 (C)
VAPOUR DENSITY (AIR=1)   1	EVAPORATION RATE   (WATER = 1) < 1	SOLUBILITY IN WATER   (20°C) COMPLETE
BOILING POINT (C)   102	FREEZING POINT (C)   NOT AVAILABLE	% VOLATILE (BY WEIGHT)   82
pH (10% SOLUTION)   12.5-13.5	DENSITY (G/ML)   NOT APPLICABLE	COEF.OF WATER/OIL DISTR   NOT AVAILABLE



# MATERIAL SAFETY DATA SHEET

MATERIAL REFERENCE NO: 705000

## SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

FLAMMABILITY: NON-FLAMMABLE   IF YES, UNDER WHICH CONDITIONS:		
MEANS OF EXTINCTION: CHEMICAL FOAM, CARBON DIOXIDE, WATER FOG		
SPECIAL PROCEDURES: WEAR FULL PROTECTIVE GEAR INCLUDING SELF-   CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH   WATER.		
FLASH POINT (C) AND METHOD: NON-COMBUSTIBLE (TCC)		
HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF CARBON, SULPHUR DIOXIDE GAS   SODIUM SULPHIDE RESIDUE, TOXIC ORGANIC VAPOURS, AMMONIA, OXIDES OF   NITROGEN, OXIDES OF PHOSPHOROUS AND SODIUM, ACRYLIC MONOMERS.		
UPPER EXPLOSION LIMIT   NOT APPLICABLE	LOWER EXPLOSION LIMIT   NOT APPLICABLE	AUTOIGNITION TEMP(C)   NOT APPLICABLE
EXPLOSION DATA SENSITIVITY   TO CHEMICAL IMPACT   NOT AVAILABLE	RATE OF BURNING   NOT APPLICABLE	EXPLOSIVE POWER   NOT APPLICABLE
SENSITIVITY TO STATIC DISCHARGE: NOT AVAILABLE		

## SECTION V - REACTIVITY DATA

CHEMICAL STABILITY: NORMALLY STABLE   IF NO, UNDER WHICH CONDITIONS: HIGH TEMPERATURES		
INCOMPATIBILITY TO OTHER SUBSTANCES: YES   IF SO, WHICH ONES: OXIDIZING AGENTS, STRONG ACIDS OR OTHER REACTIVE   MATERIALS.		
REACTIVITY AND UNDER WHAT CONDITIONS: NOT ESTABLISHED.		
HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION WILL YIELD   OXIDES OF CARBON, SULPHUR DIOXIDE GAS SODIUM SULPHIDE RESIDUE, TOXIC   ORGANIC VAPOURS, AMMONIA, OXIDES OF NITROGEN, OXIDES OF PHOSPHOROUS   AND SODIUM, ACRYLIC MONOMERS.		

## SECTION VI - HEALTH HAZARD DATA

ROUTE OF ENTRY:		
SKIN CONTACT: YES   INHALATION: YES	SKIN ABSORPTION: YES   INGESTION: YES	EYE CONTACT: YES



# MATERIAL SAFETY DATA SHEET

MATERIAL REFERENCE NO: 705000

EFFECTS OF ACUTE EXPOSURE TO MATERIAL:  
 EYES-CONTACT MAY CAUSE MODERATE TO SEVERE IRRITATION, WATERING, CONJUNCTIVITIS.  
 SKIN-CONTACT MAY MODERATE INFLAMMATION.  
 INHALATION-MAY CAUSE IRRITATION OF NOSE, EYES AND THROAT, COUGHING, DIZZINESS, NAUSEA, DIFFICULTY IN BREATHING.  
 INGESTION-MAY CAUSE IRRITATION AND BURNING SENSATION OF LIPS, MOUTH AND THROAT, PAIN IN SWALLOWING, GASTRO-INTESTINAL IRRITATION, ABUNDANT SALIVATION, STOMACH CRAMPS, NAUSEA AND VOMITING, DIFFICULTY IN BREATHING.

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:  
 EYES-IRREPARABLE DAMAGE OF MUCOUS MEMBRANES, ULCERATION OF EYES, IMPAIRED VISION.  
 INGESTION-INGESTION OF LARGE QUANTITIES MAY CAUSE RISK OF STOMACH PERFORATION, STATE OF SHOCK.

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

SENSITIZATION OF MATERIAL NOT AVAILABLE	SYNERGISTIC MATERIALS NOT AVAILABLE
--	--

CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY:  
 NONE KNOWN

## SECTION VII - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

GLOVES: RUBBER OR VINYL  
 RESPIRATORY: NONE FOR NORMAL USE  
 EYE: FACE SHIELD OR SAFETY GOGGLES  
 FOOTWEAR: IMPERVIOUS  
 CLOTHING: IMPERVIOUS  
 OTHER: EYE WASH AND SAFETY SHOWER  
 ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): LOCAL AS NEEDED TO CONTROL FUMES.

LEAK AND SPILL PROCEDURE: STOP LEAKS AND CONTAIN SPILL. TRANSFER TO SUITABLE CONTAINER FOR RECLAIM OR DISPOSAL. ABSORB REMAINING MATERIAL ONTO ABSORBANT AND SCOOP INTO CONTAINER FOR DISPOSAL. FLUSH AREA WITH VOLUMES OF WATER.

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



# MATERIAL SAFETY DATA SHEET

MATERIAL REFERENCE NO: 705000

## SECTION VIII - FIRST AID MEASURES

PROCEDURES: EYES-IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR 15 MINUTES. IF PAIN OR IRRITATION PERSIST, SEEK MEDICAL ASSISTANCE.  
 SKIN-REMOVE CONTAMINATED CLOTHING AND FLUSH AFFECTED AREA WITH WATER FOR 15 MINUTES. IF PAIN OR IRRITATION PERSIST, SEEK MEDICAL ASSISTANCE. LAUNDRY CLOTHING BEFORE REUSE.  
 INHALATION-MOVE VICTIM 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 WATER, VINEGAR AND WATER OR FRUIT JUICE. IF VOMITING OCCURS, GIVE FLUIDS AGAIN. 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.	PG
CORROSIVE LIQUID, N.O.S. (SODIUM HYDROXIDE)	8	1760	III

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

STORAGE REQUIREMENTS: STORE IN A COOL, DRY WELL-VENTILATED AREA. KEEP IN CONTAINER CLOSED WHEN NOT IN USE.

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:      JANUARY 9, 2008

### DISCLAIMER:

THE INFORMATION CONTAINED HEREIN IS COMPILED FROM SOURCES BELIEVED TO BE RELIABLE. THE MANNER AND CONDITIONS OF USE AND HANDLING MAY INVOLVE OTHER AND ADDITIONAL CONSIDERATIONS. WE ACCEPT NO RESPONSIBILITY FOR THE ACCURACY, SUFFICIENCY, RELIABILITY OR FOR ANY LOSS OR INJURY RESULTING FROM THE USE OF THE INFORMATION.