



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: 700200

SECTION I - MATERIAL IDENTIFICATION AND USE

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

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	140 MG/KG
SODIUM SULFITE	1.0-5.0	5 MG/M3	7757-83-7	2600 MG/KG
2-PROPENOIC ACID (SODIUM SALT)	5.0-10.0	NOT AVAILABLE	9003-04-7	NOT AVAILABLE

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID		
ODOUR AND APPEARANCE: DARK BROWN LIQUID; FAINT ACRID ODOUR.		
ODOUR THRESHOLD (PPM)	SPECIFIC GRAVITY	VAPOUR PRESSURE (MM)
NO VOLATILE TOXICANTS	1.10	760 AT 102 (C)
VAPOUR DENSITY (AIR=1)	EVAPORATION RATE	SOLUBILITY IN WATER
1	(WATER = 1) < 1	(20°C) COMPLETE
BOILING POINT (C)	FREEZING POINT (C)	% VOLATILE (BY WEIGHT)
102	NOT AVAILABLE	>70
pH (10% SOLUTION)	DENSITY (G/ML)	COEF.OF WATER/OIL DISTR
12.5-13.0	NOT APPLICABLE	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: 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: MINIMUM 100 (TCC)		
HAZARDOUS COMBUSTION PRODUCTS: SODIUM HYDROXIDE WILL REACT WITH SUCH METALS AS ALUMINUM, TIN AND ZINC TO GENERATE FLAMMABLE HYDROGEN.		
UPPER EXPLOSION LIMIT	LOWER EXPLOSION LIMIT	AUTOIGNITION TEMP(C)
NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
EXPLOSION DATA SENSITIVITY	RATE OF BURNING	EXPLOSIVE POWER
TO CHEMICAL IMPACT		
NOT AVAILABLE	NOT APPLICABLE	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: AVOID CONTACT WITH STRONG ACIDS OR OTHER REACTIVE MATERIALS.		
REACTIVITY AND UNDER WHAT CONDITIONS: NOT ESTABLISHED.		
HAZARDOUS DECOMPOSITION PRODUCTS: NONE		

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 MAY CAUSE STINGING OR BURNING SENSATION, INTENSE WATERING, CONJUNCTIVITIS.
SKIN-CONTACT MAY CAUSE ITCHING OR TINGLING, 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
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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 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. TRENSEFER 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.



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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. LAUNDER 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: WEAR PROPER PROTECTIVE CLOTHING. WASH THOROUGHLY AFTER HANDLING.

STORAGE REQUIREMENTS: STORE IN A COOL, DRY WELL VENTILATED AREA IN ORIGINAL CONTAINER PROPERLY SEALED.

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: DECEMBER 15, 2004

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