



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: 762200

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KT # 622	
CHEMICAL NAME : NOT APPLICABLE	CHEMICAL FAMILY : BLENDED PRODUCT
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: NOT APPLICABLE
SYNONYMS: NONE	
MATERIAL USE: STEAM BOILER TREATMENT	

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. % CONCENT.	TLV PPM	C.A.S. NUMBERS	LD 50 ORAL, RAT
SODIUM SALT OF POLYACRYLIC ACID	1.0-5.0	NO DATA	9003-04-7	NO DATA
SODIUM HYDROXIDE	10.0-15.0	2	1310-73-2	140 MG/KG
POLYMALEIC ACID SODIUM METABISULFITE	1.0-5.0	NO DATA	26099-09-2	NO DATA
MORPHOLINE	7.5-15.0	5	7681-57-4	NO DATA
CYCLOHEXYLAMINE	1.0-5.0	20	110-91-8	50 MG/KG
	1.0-5.0	10	108-91-8	156 MG/KG

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID		
ODOUR AND APPEARANCE: CLEAR, AMBER COLOUR; AMINE ODOUR.		
ODOUR THRESHOLD (PPM) NOT ESTABLISHED	SPECIFIC GRAVITY 1.125	VAPOUR PRESSURE (MM) NOT ESTABLISHED
VAPOUR DENSITY (AIR=1) NOT ESTABLISHED	EVAPORATION RATE NOT AVAILABLE	SOLUBILITY IN WATER (20°C) COMPLETE
BOILING POINT (C) 100 (C) ESTIMATED	FREEZING POINT (C) 0 (C) ESTIMATED	% VOLATILE (BY VOLUME) >85
pH (1.0 % SOLUTION) 11.0-12.5	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: WATER FOG, CARBON DIOXIDE, DRY CHEMICAL		
SPECIAL PROCEDURES: AS APPROPRIATE FOR SURROUNDING MATERIALS		
FLASH POINT (C) AND METHOD: NONE		
HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF CARBON, NITROGEN AND SODIUM		
AMMONIA.		
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, OXIDIZING AGENTS.		
REACTIVITY AND UNDER WHAT CONDITIONS: NOT ESTABLISHED		
HAZARDOUS POLYMERIZATION WILL NOT OCCUR.		
HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF CARBON AND NITROGEN,		
AMMONIA.		

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-MAY CAUSE IRRITATION.

SKIN-MAY CAUSE IRRITATION.

INHALATION-MAY CAUSE IRRITATION OF MOUTH, THROAT AND LARYNX.

EXCESSIVE MIST INHALATION MAY CAUSE LUNG DAMAGE WHICH COULD
RESULT IN CHEMICAL PNEUMONIA.

INGESTION-OF LARGE AMOUNTS MAY RESULT IN GASTRO-INTESTINAL
IRRITATION.

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:

MAY CAUSE DERMITITIS UPON FREQUENT OR PROLONGED CONTACT.

LD 50 OF MATL.	LC 50 OF MATL.	EXPOSURE LIMITS	IRRITANCY OF MATL
NOT AVAILABLE	NOT AVAILABLE	NOT ESTABLISHED	LOW

SENSITIZATION OF MATERIAL	SYNERGISTIC MATERIALS
NOT AVAILABLE	NOT AVAILABLE

CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY:
NONE KNOWN

SECTION VII - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:GLOVES & GLASSES IF USING CONCENTRATE

GLOVES: RUBBER / VINYL / PVA

RESPIRATORY: NONE FOR NORMAL USE

EYE: SAFETY GOGGLES OR FACE SHIELD

FOOTWEAR: IMPERMEABLE

CLOTHING: IMPERMEABLE

OTHER: EYE WASH

ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): GENERAL IS
NORMALLY SUFFICIENT.

LEAK AND SPILL PROCEDURE:

VENTILATE. SMALL SPILLS SHOULD BE FLUSHED WITH LARGE AMOUNTS OF
WATER. LARGE SPILLS SHOULD BE CONTAINED AND PUMPED TO SUITABLE
CONTAINER FOR RECALIM OR DISPOSAL. ABSORB RESIDUE ONTO INERT
ABSORBANT AND SCOOP INTO DISPOSAL CONTAINER.

WASTE DISPOSAL:

DISPOSE OF THROUGH A LICENSED DISPOSAL FACILITY IN ACCORDANCE WITH
LOCAL, PROVINCIAL AND FEDERAL REGULATIONS.



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SECTION VIII - FIRST AID MEASURES

PROCEDURES: EYE CONTACT-FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IF IRRITATION PERSISTS. SKIN CONTACT: FLUSH THOROUGHLY WITH SOAP AND WATER. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION. LAUNDER CONTAMINATED CLOTHING. INGESTION: DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. DRINK MILK OR WATER. DO NOT GIVE ANYTHING BY MOUTH IF VICTIM IS UNCONSCIOUS. GET MEDICAL ATTENTION IMMEDIATELY.
SOURCES USED: RAW MATERIAL SUPPLIER'S MATERIAL SAFETY DATA SHEETS
ADDITIONAL INFORMATION: NONE

SECTION IX - TDG SHIPPING INFORMATION

SHIPPING NAME CORROSIVE LIQUID N.O.S. (SODIUM HYDROXIDE)	CLASS 8	UN NO. 1760	PACKING GROUP III
HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH EYES AND SKIN. WASH THOROUGHLY AFTER HANDLING.			
STORAGE REQUIREMENTS: STORE IN A COOL DRY PLACE. KEEP CONTAINERS CLOSED WHEN NOT IN USE. KEEP FROM FREEZING.			
SPECIAL SHIPPING INFORMATION: HEATED			

SECTION X - HAZARD RATING INFORMATION

FLAMMABILITY 1	REACTIVITY 0	HEALTH 2
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SECTION XI - PREPARATION DATE OF MSDS

PREPARED BY: TECHNICAL DEPARTMENT	TELEPHONE # (905) 456-9444
REVIEWED: DECEMBER 16, 2002	

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