



# 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, D2B, E

MATERIAL REFERENCE NO: 549800

## SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KEMTREET 498	
CHEMICAL NAME : NOT APPLICABLE	CHEMICAL FAMILY : BLENDED PRODUCT
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: NOT APPLICABLE
SYNONYMS: NONE	
MATERIAL USE: CORROSION AND SCALE PREVENTION - STEAM BOILERS	

## SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS   INGREDIENTS	APPROX.   % CONCENT.	TLV   PPM	C.A.S. N.A.   U.N. NUMBERS	LD 50   ORAL, RAT
SODIUM HYDROXIDE	1.0-5.0	2 MG/M3	1310-73-2	140 MG/KG
TETRA SODIUM SALT   OF ETHYLENE-DIAMI-   NETETRAACETIC ACID	1.0-5.0	NOT   AVAILABLE	64-02-8	3030 MG/KG
SODIUM SULPHITE	3.0-7.0	NOT   AVAILABLE	7757-83-7	2600 MG/KG

## SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID		
ODOUR AND APPEARANCE: CLEAR, LIGHT AMBER COLOUR; TYPICAL ODOUR.		
ODOUR THRESHOLD (PPM)   NOT ESTABLISHED	SPECIFIC GRAVITY   1.042	VAPOUR PRESSURE (MM)   NOT ESTABLISHED
VAPOUR DENSITY (AIR=1)   NOT ESTABLISHED	EVAPORATION RATE   (WATER=1) 0.9	SOLUBILITY IN WATER   (20°C) COMPLETE
BOILING POINT (C)   100	FREEZING POINT (C)   0	% VOLATILE (BY VOLUME)   90
pH (10.0 % SOLUTION)   12.0-13.0	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: NONE FLAMMABLE		
IF YES, UNDER WHICH CONDITIONS:		
MEANS OF EXTINCTION: WATER FOG, CARBON DIOXIDE, DRY CHEMICAL		
SPECIAL PROCEDURES: PRODUCT IS NON-FLAMMABLE, BUT UNDER FIRE		
CONDITIONS IT MAY DECOMPOSE TO GIVE OFF SULPHUR DIOXIDE. WEAR FULL-		
PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATUS.		
FLASH POINT (C) AND METHOD: NONE		
HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF CARBON AND NITROGEN,		
AMMONIA, SULPHUR DIOXIDE, SODIUM SULPHITE.		
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 APPLICABLE		

## SECTION V - REACTIVITY DATA

CHEMICAL STABILITY: STABLE		
IF NO, UNDER WHICH CONDITIONS:		
INCOMPATIBILITY TO OTHER SUBSTANCES: YES		
IF SO, WHICH ONES: ACIDS, REACTIVE METALS, ORGANIC HALOGENS, ORGANIC		
NITRO COMPOUNDS.		
REACTIVITY AND UNDER WHAT CONDITIONS: CONTACT WITH ACIDS PRODUCES		
SULPHUR DIOXIDE.		
HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF CARBON AND NITROGEN		
AMMONIA, SULPHUR DIOXIDE, SODIUM SULPHIDE.		

## 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 SEVERE IRRITATION, POSSIBLE CORNEAL DAMAGE.  
SKIN-MAY CAUSE SEVERE IRRITATION.  
INHALATION-MAY CAUSE IRRITATION OF MOUTH, THROAT AND LARYNX,  
POSSIBLY PULMONARY EDEMA AND LOW BLOOD PRESSURE.  
EXCESSIVE MIST INHALATION MAY CAUSE LUNG DAMAGE WHICH COULD  
RESULT IN CHEMICAL PNEUMONIA.  
INGESTION-OF LARGE AMOUNTS MAY RESULT IN GASTRO-INTESTINAL  
IRRITATION OR ULCERATION, SEVERE IRRITATION OF MOUTH & THROAT,  
FOLLOWED BY VOMITING AND DIARRHEA. MAY CAUSE SEVERE ALLERGIC  
REACTION IN SOME ASTHMATICS.

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	MODERATE

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 / VINYL / PVA  
RESPIRATORY: APPROVED VAPOUR RESPIRATOR IF MISTY CONDITIONS PREVAIL.  
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: TRANSFER TO APPROPRIATE CONTAINER FOR  
REUSE OR DISPOSAL. ABSORB REMAINING MATERIAL ONTO INERT ABSORBENT.  
FLUSH RESIDUAL 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:
INHALATION: REMOVE TO FRESH AIR. GIVE OXYGEN IF BREATHING IS DIFFICULT. SEEK MEDICAL ATTENTION.
EYE CONTACT: FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION.
SKIN CONTACT: FLUSH THOROUGHLY WITH SOAP AND WATER. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.
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	CLASS	UN NO.	PACKING GROUP
CORROSIVE LIQUIDS N.O.S. (SODIUM HYDROXIDE)	8	1760	III
HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH EYES AND SKIN. WASH THOROUGHLY AFTER HANDLING.			
STORAGE REQUIREMENTS: STORE IN A COOL, DRY AREA AWAY FROM INCOMPATIBLE MATERIALS. KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP FROM FREEZING.			
SPECIAL SHIPPING INFORMATION: NONE			

## SECTION X - 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 14, 2002	

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