



# 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: E

MATERIAL REFERENCE NO: 784100

## SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KEMTREET 841	
CHEMICAL NAME: CAUSTIC SOLUTION	CHEMICAL FAMILY: ALKALIES
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: NOT APPLICABLE
SYNONYMS: NONE	
MATERIAL USE: LIQUID pH ADJUSTER	

## SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS   INGREDIENTS	APPROX.   % CONCENT.	TLV   MG/M3	C.A.S.   NUMBERS	LDLo ORAL   RABBIT
SODIUM HYDROXIDE	10.0-30.0	2	1310-73-2	500 MG/KG

## SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID			
ODOUR AND APPEARANCE: CLEAR, CLOURLESS LIQUID; LOW ODOUR.			
ODOUR THRESHOLD (PPM)	SPECIFIC GRAVITY	VAPOUR PRESSURE	
NOT AVAILABLE	1.12	NOT APPLICABLE	
VAPOUR DENSITY (AIR=1)	EVAPORATION RATE	SOLUBILITY IN WATER	
NOT APPLICABLE	(WATER=1) <1	SOLUBLE	
BOILING POINT (C)	MELTING POINT (C)	% VOLATILE (BY VOLUME)	
NOT AVAILABLE	NOT AVAILABLE	> 70	
pH (10% SOLUTION)	DENSITY (G/ML)	COEF.OF WATER/OIL DISTR	
VERY STRONG ALKALI	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: AS FOR SURROUNDING MATERIALS			
SPECIAL PROCEDURES: WEAR FULL PROTECTIVE EQUIPMENT INCLUDING SELF-			
CONTAINED BREATHING APPARATUS. RESIDUAL MATERIAL WILL RESULT IN			
SLIPPERY SURFACES.			
FLASH POINT (C) AND METHOD: NONE			
HAZARDOUS COMBUSTION PRODUCTS: NONE			
UPPER EXPLOSION LIMIT	LOWER EXPLOSION LIMIT	AUTOIGNITION TEMP (C)	
NONE	NONE	NOT APPLICABLE	
EXPLOSION DATA SENSITIVITY			
TO CHEMICAL IMPACT			
NOT AVAILABLE	NOT APPLICABLE	NOT APPLICABLE	
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, FLAMMABLE LIQUIDS, ORGANIC HALOGEN			
COMPOUNDS, REACTIVE METALS, NITROMETHANE AND OTHER SIMILAR NITRO			
COMPOUNDS.			
REACTIVITY AND UNDER WHAT CONDITIONS: CONTACT WITH ACIDS, FLAMMABLE			
LIQUIDS AND ORGANIC HALOGEN COMPOUNDS MAY CAUSE FIRE AND EXPLOSIONS.			
CONTACT WITH METALS SUCH AS ALUMINUM, TIN AND ZINC CAUSES FORMATION			
OF FLAMMABLE HYDROGEN GAS. CONTACT WITH NITROMETHANE AND OTHER			
SIMILAR NITRO COMPOUNDS CAUSES FORMATION OF SHOCK-SENSITIVE SALTS.			
ALSO REACTS WITH BRONZE AND BRASS. GENERATES HEAT WHEN ADDED TO			
WATER.			
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-EXTREMELY CORROSIVE. CAUSES CORNEAL SCARRING AND CLOUDING. |  
| GLAUCOMA, CATARACTS AND PERMANENT BLINDNESS MAY OCCUR. DAMAGE MAY |  
| BE DELAYED AND NOT INITIALLY APPARENT. DUST MAY IRRITATE THE EYES. |  
| SKIN-CONTACT CAN CAUSE DEEP AND SEVERE SKIN BURNS, ULCERATION AND |  
| SCARRING. PAINFUL TISSUE DAMAGE MAY RESULT AND THE SENSATION OF |  
| PAIN MAY BE DELAYED. |  
| INHALATION-MIST MAY CAUSE SEVERE IRRITATION OF THE NOSE, THROAT AND |  
| LUNGS. |  
| INGESTION-MAY CAUSE PAIN, VOMITING AND SEVERE BURNS OF MOUTH, THROAT |  
| AND EXTENSIVE DAMAGE OR PERFORATION OF THE ESOPHAGUS. MAY BE FATAL. |

| EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: |

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

| SENSITIZATION OF MATERIAL | SYNERGISTIC MATERIALS |  
| NOT AVAILABLE | NOT AVAILABLE |

| CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY: |  
| NOT KNOWN |

## SECTION VII - PREVENTIVE MEASURES

| PERSONAL PROTECTIVE EQUIPMENT: |

| GLOVES: RUBBER, NITRILE OR PVC |  
| RESPIRATORY: APPROVED FOR FUMES AND MISTS UP TO 20mg/m3. AIR |  
| SUPPLIED RESPIRATOR FOR HIGHER CONCENTRATIONS. |  
| EYE: CHEMICAL GOGGLES OR FACE SHIELD |  
| FOOTWEAR: RUBBER BOOTS |  
| CLOTHING: RUBBER APRON |  
| OTHER: EYE WASH AND SAFETY SHOWER |  
| ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): GOOD |  
| GENERAL AREA VENTILATION. |

| LEAK AND SPILL PROCEDURE: STOP AND CONTAIN LEAK OR SPILL. VENTILATE |  
| AREA. PROTECTIVE EQUIPMENT MUST BE WORN. DYKE WITH INERT MATERIAL |  
| (SAND, EARTH ETC.). TRANSFER TO SUITABLE CONTAINER FOR REUSE OR |  
| DISPOSAL. ABSORB REMAINING MATERIAL ONTO INERT ABSORBENT AND SCOOP |  
| INTO DISPOSAL CONTAINER. CAREFULLY NEUTRALIZE RESIDUE WITH DILUTE |  
| HYDROCHLORIC ACID AND FLUSH WITH VOLUMES OF WATER. KEEP OUT OF |  
| WATERWAYS. |

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



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## SECTION VIII - FIRST AID MEASURES

PROCEDURES:  
EYES-FLUSH EYES WITH RUNNING WATER FOR AT LEAST 20 MINUTES HOLDING EYELIDS OPEN. ALWAYS OBTAIN IMMEDIATE MEDICAL ATTENTION.  
SKIN-REMOVE CONTAMINATED CLOTHING. FLUSH AFFECTED AREA WITH RUNNING WATER FOR AT LEAST 20 MINUTES. OBTAIN MEDICAL ATTENTION IMMEDIATELY.  
INHALATION-REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT GIVE OXYGEN. IF NOT BREATHING ADMINISTER ARTIFICIAL RESPIRATION AND THEN GIVE OXYGEN. OBTAIN MEDICAL ATTENTION.  
INGESTION-UNLESS UNCONSCIOUS OR CONVULSING GIVE 1-2 GLASSES OF MILK OR WATER TO DILUTE. DO NOT INDUCE VOMITING. OBTAIN MEDICAL ATTENTION IMMEDIATELY.  
EMERGENCY MEDICAL CARE-EYE BURNS OFTEN GO THROUGH THREE STAGES-AN ACUTE STAGE WHEN EARLY DAMAGE IS EXPERIENCED, A REPARABLE STAGE WHEN EYE BEGINS TO HEAL AND A RELAPSE STAGE. FOLLOW UP CARE IS ESSENTIAL.

SOURCES USED: RAW MATERIAL SUPPLIER'S MATERIAL SAFETY DATA SHEETS

ADDITIONAL INFORMATION: NONE

## SECTION IX - TDG SHIPPING INFORMATION

SHIPPING NAME	CLASS	UN NO.	PG
SODIUM HYDROXIDE SOLUTION	8	1824	II

HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH EYES, SKIN AND CLOTHING. HANDLE CAREFULLY. WASH THOROUGHLY AFTER HANDLING. ADD CAUSTIC SOLUTION TO WATER TO AVOID BOILING AND SPLATTERING.  
SOLUTIONS ARE VERY SLIPPERY ON FLOORS.

STORAGE REQUIREMENTS: STORE BETWEEN 15-50(C). PROTECT CONTAINER FROM DAMAGE. DO NOT STORE NEAR INCOMPATIBLE MATERIALS.

SPECIAL SHIPPING INFORMATION: KEEP FROM FREEZING.

## SECTION X - HMIS HAZARD RATING INFORMATION

FLAMMABILITY	REACTIVITY	HEALTH
0	2	3

## SECTION XI - PREPARATION DATE OF MSDS

PREPARED BY: TECHNICAL DEPARTMENT      TELEPHONE # (905) 456-9444  
PREPARED:      OCTOBER 10, 2009

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