



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: 550500

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KEMTREET SB 505	
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 TO SLIGHTLY TURBID, ODOURLESS LIQUID			
ODOUR THRESHOLD (PPM)	SPECIFIC GRAVITY	VAPOUR PRESSURE	
NOT AVAILABLE	1.33 - 1.53	1.5mm Hg AT (20)	
VAPOUR DENSITY (AIR=1)	EVAPORATION RATE	SOLUBILITY IN WATER	
NOT APPLICABLE	(WATER=1) <1	SOLUBLE	
BOILING POINT (C)	FREEZING POINT (C)	% VOLATILE (BY WEIGHT)	
NOT AVAILABLE	NOT AVAILABLE	> 70	
pH (1.0% SOLUTION)	DENSITY (G/ML)	COEF.OF WATER/OIL DISTR	
12.0-13.0	NOT AVAILABLE	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.			
NOTE: DO NOT USE CO2. THIS WILL REACT EXOTHERMICALLY WITH SODIUM			
HYDROXIDE.			
FLASH POINT (C) AND METHOD: NONE			
HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF SODIUM.			
UPPER EXPLOSION LIMIT			
NONE			
LOWER EXPLOSION LIMIT			
NONE			
AUTOIGNITION TEMP (C)			
NOT APPLICABLE			
EXPLOSION DATA SENSITIVITY			
TO CHEMICAL IMPACT			
NOT AVAILABLE			
RATE OF BURNING			
NOT AVAILABLE			
EXPLOSIVE POWER			
NOT AVAILABLE			
SENSITIVITY TO STATIC DISCHARGE: NOT AVAILABLE			

SECTION V - REACTIVITY DATA

CHEMICAL STABILITY: STABLE			
IF NO, UNDER WHICH CONDITIONS:			
HAZARDOUS POLYMERIZATION WILL NOT OCCUR.			
INCOMPATIBILITY TO OTHER SUBSTANCES: YES			
IF SO, WHICH ONES: ACIDS, ACID ANHYDRIDES, OXIDIZABLE MATERIALS.			
REACTIVITY AND UNDER WHAT CONDITIONS: CONTACT WITH ACIDS WILL CAUSE			
VIOLENT REACTION. CONTACT WITH METALS SUCH AS ALUMINUM, TIN AND ZINC			
CAUSES FORMATION OF FLAMMABLE HYDROGEN GAS. 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: NIOSH 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): PROVIDE
LOCAL OR MECHANICAL VENTILATION IF AIRBORNE CONCENTRATIONS EXCEED
RECOMMENDED EXPOSURE LEVELS.

LEAK AND SPILL PROCEDURE: PROTECTIVE EQUIPMENT MUST BE WORN. STOP
AND CONTAIN LEAK OR SPILL. 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-IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR AT LEAST 20 MINUTES. 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 NOT BREATHING, ADMINISTER ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT GET IMMEDIATE MEDICAL ATTENTION.
INGESTION-GIVE 2 GLASSES OF WATER. NEVER GIVE ANYTHING BY MOUTH IF PERSON IS UNCONSCIOUS OR CONVULSING DO NOT INDUCE VOMITING. OBTAIN 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.	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	1	3

SECTION XI - PREPARATION DATE OF MSDS

PREPARED BY: TECHNICAL DEPARTMENT	TELEPHONE # (905) 456-9444
REVISED: OCTOBER 10, 2009	REPLACES: NOVEMBER 24, 2005

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