



# 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: 564900

## SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KEMTREET SB 649	
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 HYDROXIDE	3.0-7.0	2 MG/M3	1310-73-2	500 MG/KG
				(LDLo RABBIT)
TETRASODIUM ETHYLENE	1.0-5.0	NO DATA	64-02-8	NO DATA
DIAMINE TETRAACETATE		AVAILABLE		AVAILABLE

## SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID		
ODOUR AND APPEARANCE: CLEAR, AMBER COLOUR; LOW AROMATIC ODOUR.		
ODOUR THRESHOLD (PPM)   NOT ESTABLISHED	SPECIFIC GRAVITY   1.08	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	FREEZING POINT (C)   < 0 C	% VOLATILE (BY VOLUME)   >85
pH (10.0 % SOLUTION)   12.5-13.5	DENSITY (G/ML)   NOT APPLICABLE	COEF.OF WATER/OIL DISTR   NOT AVAILABLE



# MATERIAL SAFETY DATA SHEET

MATERIAL REFERENCE NO: 564900

## 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: WEAR FULL PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATUS.		
FLASH POINT (C) AND METHOD: >93.9 TCC		
HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF CARBON, NITROGEN, PHOSPHINES AND PHOSPHOROUS, AMMONIA, TOXIC ORGANIC VAPOURS AND FUMES		
UPPER EXPLOSION LIMIT	LOWER EXPLOSION LIMIT	AUTOIGNITION TEMP (C)
NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
EXPLOSION DATA SENSITIVITY TO CHEMICAL IMPACT	RATE OF BURNING	EXPLOSIVE POWER
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: STRONG OXIDIZING AGENTS, ACIDS, REACTIVE METALS, ORGANIC HALOGENS, ORGANIC NITRO COMPOUNDS.		
REACTIVITY AND UNDER WHAT CONDITIONS: NOT ESTABLISHED		
HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION WILL YIELD OXIDES OF CARBON, NITROGEN, PHOSPHINES AND PHOSPHOROUS, AMMONIA, TOXIC ORGANIC VAPOURS AND FUMES.		

## SECTION VI - HEALTH HAZARD DATA

ROUTE OF ENTRY:		
SKIN CONTACT: YES	SKIN ABSORPTION: YES	EYE CONTACT: YES
INHALATION: YES	INGESTION: YES	



# MATERIAL SAFETY DATA SHEET

MATERIAL REFERENCE NO: 564900

-----

|EFFECTS OF ACUTE EXPOSURE TO MATERIAL: |  
 |EYES-CAN CAUSE SEVERE IRRITATION, BURNS, CORNEAL DAMAGE. |  
 |SKIN-MAY CAUSE MODERATE IRRITATION, REDNESS, BURNS. |  
 |INHALATION-OF MISTS OR VAPOURS MAY CAUSE IRRITATION OF MOUTH, THROAT |  
 |AND LARNYX. EXCESSIVE MIST INHALATION MAY CAUSE LUNG DAMAGE WHICH |  
 |COULD RESULT IN CHEMICAL PNEUMONIA. |  
 |INGESTION-CAN CAUSE GASTROINTESTINAL IRRITATION OR ULCERATION, BURNS |  
 |TO THE MOUTH AND THROAT. |  
 |

-----

|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 & GLASSES IF USING CONCENTRATE
GLOVES: IMPERVIOUS (I.E. RUBBER, VINYL, PVA)
RESPIRATORY: AIR PURIFYING RESPIRATOR IF MISTY CONDITIONS PREVAIL.
EYE: SAFETY GOGGLES OR FACE SHIELD
FOOTWEAR: IMPERMEABLE
CLOTHING: IMPERMEABLE
OTHER: EYE WASH AND SAFETY SHOWER
ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): PROVIDE
LOCAL VENTILATION IN CONFINED OR POORLY VENTILATED AREAS TO MAINTAIN
AIRBORN CONCENTRATIONS WITHIN RECOMMENDED LIMITS.

-----

|LEAK AND SPILL PROCEDURE: WEAR RECOMMENDED PROTECTIVE EQUIPMENT. |  
 |CONTAIN SPILL. PROVIDE ADEQUATE VENTILATION. TRANSFER TO SUITABLE |  
 |CONTAINER FOR REUSE OR DISPOSAL. ABSORB REMAINING MATERIAL ONTO |  
 |INERT ABSORBANT AND SCOOP INTO DISPOSAL CONTAINER. FLUSH RESIDUAL |  
 |WITH VOLUMES OF WATER. |

-----

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



# MATERIAL SAFETY DATA SHEET

MATERIAL REFERENCE NO: 564900

## SECTION VIII - FIRST AID MEASURES

-----

| PROCEDURES: |

| EYE CONTACT: FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 |

| MINUTES WHILE HOLDING EYELIDS OPEN. SEEK MEDICAL ATTENTION. |

| SKIN CONTACT: WHILE REMOVING CONTAMINATED CLOTHING, FLUSH WITH |

| COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. IF IRRITATION |

| PERSISTS, SEEK MEDICAL ATTENTION. LAUNDRER CLOTHING BEFORE REUSE. |

| INHALATION: REMOVE TO FRESH AIR. GIVE OXYGEN IS BREATHING IS |

| DIFFICULT. GET MEDICAL ATTENTION. |

| INGESTION: DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. DRINK |

| 2 GLASSES OF WATER. DO NOT GIVE ANYTHING BY MOUTH IF VICTIM IS |

| UNCONSCIOUS OR CONVULSING. 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 LIQUID N.O.S. (SODIUM HYDROXIDE)	8	1760	III

-----

| HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH EYES, SKIN AND |

| CLOTHING. WASH THOROUGHLY AFTER HANDLING. |

-----

| STORAGE REQUIREMENTS: STORE IN A COOL, DRY, WELL-VENTILATED AREA. |

| KEEP FROM FREEZING. KEEP CONTAINERS CLOSED WHEN NOT IN USE. |

-----

| 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
REVISED: OCTOBER 10, 2009	REPLACES: DECEMBER 15, 2005

-----

DISCLAIMER:

THE INFORMATION CONTAINED HEREIN IS COMPILED FROM SOURCES BELIEVED TO BE RELIABLE. THE MANNER AND CONDITIONS OF USE AND HANDLING MAY INVOLVE OTHER AND ADDITIONAL CONSIDERATIONS. WE ACCEPT NO RESPONSIBILTY FOR THE ACCURACY, SUFFICIENCY, RELIABILITY OR FOR ANY LOSS OR INJURY RESULTING FROM THE USE OF THE INFORMATION.