

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: 544800

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KEMTREET SB 448

|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.	TLV PPM	C.A.S. NUMBERS	LD 50 ORAL, RAT
SODIUM HYDROXIDE	1.0-5.0	2 MG/M3 	1310-73-2	140 MG/KG
2-PROPENOIC ACID (SODIUM SALT)	1.0-5.0	 NOT AVAILABLE	9003-04-7	NOT AVAILABLE
AMINO-2 METHYL-2 PROPANOL-1	1.0-5.0	NOT AVAILABLE 	124-68-5	NOT AVAILABLE

SECTION III - PHYSICAL DATA FOR MATERIAL

|PHYSICAL STATE: LIQUID |

ODOUR AND APPEARANCE: CLEAR, AMBER COLOUR; ACRID ODOUR.

ODOUR THRESHOLD (PPM) | SPECIFIC GRAVITY | VAPOUR PRESSURE (MM) | NOT ESTABLISHED | 1.021 | NOT ESTABLISHED |

| BOILING POINT (C) | FREEZING POINT (C) | VOLATILE (BY VOLUME) |
| NOT AVAILABLE | NOT AVAILABLE | >92 |
| PH (10.0 % SOLUTION) | DENSITY (G/ML) | COEF.OF WATER/OIL DISTR

| 12.0-13.0 | NOT APPLICABLE | NOT AVAILABLE |

Page 1 of 4



MATERIAL REFERENCE NO: 544800 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: NONE APPLICABLE | FLASH POINT (C) AND METHOD: NONE HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF CARBON AND NITROGEN, AMMONIA ._____ UPPER EXPLOSION LIMIT | LOWER EXPLOSION LIMIT | AUTOIGNITION TEMP(C)| NOT APPLICABLE | NOT APPLICABLE | NOT APPLICABLE ______ EXPLOSION DATA SENSITIVITY RATE OF BURNING EXPLOSIVE POWER TO CHEMICAL IMPACT NOT APPLICABLE 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 REACTIVITY AND UNDER WHAT CONDITIONS: NOT ESTABLISHED | 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 |



MATERIAL REFERENCE NO: 544800

EFFECTS OF ACUTE EXPOSURE TO MATERIAL:

EYES-MAY CAUSE BURNS, CORNEAL DAMAGE.

SKIN-MAY CAUSE IRRITATION, BURNS.

INHALATION-MAY CAUSE IRRITATION OF MOUTH, THROAT AND LARNYX. 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, 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 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: RUBBER / VINYL / PVA

RESPIRATORY: AIR PURIFYING 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:

VENTILATE. SMALL SPILLS SHOULD BE FLUSHED WITH LARGE AMOUNTS OF WATER. LARGE SPILLS SHOULD BE COLLECTED FOR RECLAIM OR DISPOSAL. ABSORB REMAINING RESDUAL 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.



MATERIAL REFERENCE NO: 544800

SECTION VIII - FIRST AID MEASURES

PROCEDURES: HAZARDOUS PRODUCT. OBTAIN MEDICAL ATTENTION FOR ALL EXPOSURES OTHER THAN MINOR INSTANCES OF INHALATION OR SKIN CONTACT.

INHALATION: REMOVE TO FRESH AIR. GIVE OXYGEN IS 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 LIQUID N.O.S.	8	1760	III	ĺ
(SODIUM HYDROXIDE)				ĺ

| HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH SKIN AND EYES. | 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: NONE

SECTION X - HAZARD RATING INFORMATION

SECTION XI - PREPARATION DATE OF MSDS

REVIEWED: DECEMBER 14, 2002

REVIEWED: DECEMBER 14, 2002

| PREPARED BY: TECHNICAL DEPARTMENT TELEPHONE # (905) 456-9444

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.