



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: D1A, E

MATERIAL REFERENCE NO: 790000

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KEMTREET 900
CHEMICAL NAME: HYDROCHLORIC ACID

 | CHEMICAL FORMULA: MIXTURE | MOLECULAR WEIGHT: NOT APPLICABLE |

SYNONYMS: NONE
MATERIAL USE: COMMERCIAL DESCALER

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. % CONCENT.	TLV PPM	C.A.S. NUMBERS	LD 50 ORAL, RAT
HYDROCHLORIC ACID	10.0-30.0	5	7647-01-0	NO DATA
OXIDE OF DEHYDRO- ABIETYLAMINE	0.5-1.5	NO DATA AVAILABLE	MIXTURE	2790 MG/KG

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: FUMING LIQUID
ODOUR AND APPEARANCE: CLEAR, LIQUID; SHARP IRRITATING ODOUR.

ODOUR THRESHOLD (PPM)	SPECIFIC GRAVITY	VAPOUR PRESSURE (MM HG)
5	1.10	NOT AVAILABLE

VAPOUR DENSITY (AIR=1)	EVAPORATION RATE	SOLUBILITY IN WATER
NOT AVAILABLE	NOT AVAILABLE	(20 ° C) SOLUBLE

BOILING POINT (C)	FREEZING POINT (C)	% VOLATILE (BY WEIGHT)
99	NOT AVAILABLE	98

pH (1.0% SOLUTION)	DENSITY (G/ML)	COEF.OF WATER/OIL DISTR
1.5-2.5	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 APPROPRIATE FOR SURROUNDING MATERIALS.		
SPECIAL PROCEDURES: WEAR FULL PROTECTIVE GEAR INCLUDING SELF-		
CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH		
WATER. PROTECT AGAINST CORROSIVE LIQUIDS AND FUMES IF RELEASED.		
FLASH POINT (C) AND METHOD: NON-FLAMMABLE		
HAZARDOUS COMBUSTION PRODUCTS: CHLORINE, HYDROGEN CHLORIDE		
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 AVAILABLE		

SECTION V - REACTIVITY DATA

CHEMICAL STABILITY: NORMALLY STABLE		
IF NO, UNDER WHICH CONDITIONS: HYDROCHLORIC ACID LOSES HYDROGEN		
CHLORIDE GAS WHEN HEATED.		
INCOMPATIBILITY TO OTHER SUBSTANCES: YES		
IF SO, WHICH ONES: STRONG BASES, HYDROXIDES, AMINES, REDUCING AGENTS		
CARBONATES, ALKALIES, CYANIDES, SULPHIDES, SULPHITES, FORMALDEHYDE,		
MOST METALS.		
REACTIVITY AND UNDER WHAT CONDITIONS: EXOTHERMIC REACTION WITH		
ALKALIS. HIGHLY REACTIVE WITH REDUCING AGENTS. REACTS WITH SEVERAL		
METALS TO GIVE OFF FLAMMABLE HYDROGEN GAS.		
HAZARDOUS DECOMPOSITION PRODUCTS: MAY EVOLVE HYDROGEN CHLORIDE GAS		
AND CHLORINE AT HIGH TEMPERATURES.		

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: |
|EYE CONTACT-EXTREMELY CORROSIVE. VAPOURS CAN CAUSE IRRITATION. |
|CONTACT WITH LIQUID CAN CAUSE SEVERE IRRITATION, BURNS AND PERMANENT |
|BLINDNESS. |
|SKIN CONTACT-CORROSIVE. CAN CAUSE SEVERE IRRITATION, BURNS, |
|PERMANENT SCARRING. REPEATED EXPOSURES TO VAPOURS MAY CAUSE REDNESS, |
|IRRITATION AND BURNS. |
|INHALATION-CAN CAUSE IRRITATION OF RESPIRATORY TRACT, CHEST PAIN |
|COUGHING. MAY CAUSE ULCERATION OF NOSE AND THROAT. VAPOURS MAY CAUSE |
|PULMONARY EDEMA. SYMPTOMS MAY BE DELAYED. |
|INGESTION-CORROSIVE. CAN CAUSE SEVERE BURNING AND PAIN IN MOUTH, |
|THROAT AND ABDOMEN; VOMITING, DIARRHEA, PERFORATION OF ESOPHAGUS AND |
|STOMACH LINING. |

|EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: |
|REPEATED AND PROLONGED EXPOSURE TO LOW CONCENTRATIONS OF MIST OR |
|VAPOUR CAN CAUSE DISCOLOURATION AND DAMAGE TO TOOTH ENAMEL, BLEEDING |
|OF THE NOSE AND GUMS, CHRONIC BRONCHITIS AND GASTRITIS, REDNESS, |
|SWELLING, PAIN (DERMATITIS.) |

|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: |
|NO DATA AVAILABLE. |

SECTION VII - PREVENTIVE MEASURES

|PERSONAL PROTECTIVE EQUIPMENT: |

| GLOVES: NEOPRENE, NATURAL RUBBER, BUTYL RUBBER, NITRILE RUBBER |
|RESPIRATORY: NIOSH/MSHA APPROVED RESPIRATOR WITH ACID GAS CARTIDGES |
| IF AIRBORNE CONCENTRATIONS EXCEED OCCUPATIONAL |
| EXPOSURE LIMITS |
| EYE: CHEMICAL GOGGLES AND FACE SHIELD |
| FOOTWEAR: IMPERMEABLE |
| CLOTHING: IMPERMEABLE |
| OTHER: EYE WASH AND SAFETY SHOWER |
|ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): ADEQUATE |
|LOCAL EXHAUST VENTILATION TO MAINTAIN EXPOSURES WITHIN ACCEPTABLE |
|LIMITS. |

|LEAK AND SPILL PROCEDURE: WEAR RECOMMENDED PROTECTIVE EQUIPMENT. |
|CONTAIN SPILL. CAREFULLY TRANSFER TO SUITABLE CONTAINER FOR RECLAIM |
|OR DISPOSAL. NEUTRALIZE REMAINING MATERIAL WITH DILUTE SOLUTION OF |
|SODA ASH OR SODIUM CARBONATE. ABSORB ONTO INERT ABSORBANT AND SCOOP |
|INTO DISPOSAL CONTAINER. 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: |

| EYES-HOLD EYELIDS OPEN AND IMMEDIATELY FLUSH WITH RUNNING WATER FOR |

| AT LEAST 30 MINUTES. GET IMMEDIATE MEDICAL ATTENTION AFTER FLUSHING. |

| SKIN-REMOVE CONTAMINATED CLOTHING IMMEDIATELY AND FLUSH WITH CLEAN |

| WATER FOR AT LEAST 30 MINUTES. GET PROMPT MEDICAL ATTENTION. |

| INHALATION-REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL |

| RESPIRATION. GIVE OXYGEN IF BREATHING IS DIFFICULT. GET IMMEDIATE |

| MEDICAL ATTENTION. |

| INGESTION-DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. RINSE |

| MOUTH WITH WATER. DO NOT GIVE FLUIDS IF PERSON IS UNCONSCIOUS OR |

| CONVULSING. GET IMMEDIATE MEDICAL ATTENTION. |

| 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. (HYDROCHLORIC ACID)	8	1760	II

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

| CLOTHING. USE WITH ADEQUATE VENTILATION, WASH THOROUGHLY AFTER USE. |

| DO NOT USE NEAR AMMONIA. |

| STORAGE REQUIREMENTS: STORE IN ORIGINAL CONTAINER AWAY FROM |

| INCOMPATIBLE MATERIALS, DIRECT SUNLIGHT OR SOURCES OF HEAT. KEEP |

| CONTAINER CLOSED WHEN NOT IN USE. |

| SPECIAL SHIPPING INFORMATION: NON-HEATED |

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 |

| REVIEWED: OCTOBER 10, 2009 |

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