



MATERIAL SAFETY DATA SHEET

KEM CANADA MFG.
 4 BLAIR DRIVE
 BRAMPTON, ONTARIO
 L6T 2H5

EMERGENCY # (905) 456-9444
 CANUTEC # (613) 996-6666
 W.H.M.I.S. CLASSIFICATION
 D1A, E

MATERIAL REFERENCE NO: 7110000

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KEMTREET 1100
CHEMICAL NAME: MIXTURE

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

SYNONYMS: NONE
MATERIAL USE: FAST ACTING DESCALER

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. % CONCENT.	TLV PPM	C.A.S. NUMBERS	LC 50 INHALATION, RAT
HYDROCHLORIC ACID	30.0-60.0	2	7647-01-0	3124 PPM
OXIDE OF DEHYDRO- ABIETYLAMINE	0.5-1.5	NO DATA	MIXTURE	2790 MG/KG

SECTION III - PHYSICAL DATA FOR MATERIAL

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

ODOUR THRESHOLD (PPM)	SPECIFIC GRAVITY	VAPOUR PRESSURE (MM HG)
5	1.16	NOT AVAILABLE

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

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

pH (1.0% SOLUTION)	DENSITY (G/ML)	COEF.OF WATER/OIL DISTR
2.5	NOT APPLICABLE	NOT AVAILABLE



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SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL



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|EFFECTS OF ACUTE EXPOSURE TO MATERIAL: |
|EYE CONTACT-VERY CORROSIVE. CAN CAUSE SEVERE IRRITATION, BURNS, CAN |
|CAUSE CORNEAL SCARRING AND CLOUDING. PERMANENT DAMAGE MAY OCCUR. |
|SKIN CONTACT-CORROSIVE. CAN CAUSE SEVERE IRRITATION, POSSIBLE SKIN |
|BURNS. |
|INHALATION-EXCESSIVE INHALATION OF VAPOURS OR MIST CAN CAUSE SEVERE |
|IRRITATION OF NOSE, THROAT AND RESPIRATORY TRACT, CHEST PAIN, |
|COUGHING, MAY CAUSE ULCERATION OF NOSE AND THROAT. VAPOURS CAN CAUSE |
|PULMONARY EDEMA (FLUID IN LUNGS), SYMPTOMS MAY BE DELAYED. |
|INGESTION-CORROSIVE. CAN CAUSE BURNS AND PAIN TO MOUTH, THROAT AND |
|STOMACH. VOMITING, DIARRHEA AND POSSIBLE PERFORATION OF ESOPHAGUS |
|AND STOMACH LINING MAY OCCUR IF SUFFICIENT QUANTITIES ARE INGESTED. |

|EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: |
|EYES-REPEATED AND PROLONGED EXPOSURE TO MISTS MAY CAUSE CHRONIC EYE |
|IRRITATION. |
|CORROSIVE EFFECTS ON SKIN AND EYES MAY BE DELAYED AND MAY OCCUR |
| WITHOUT THE ONSET OF PAIN. |

|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: |
|MUTAGENIC EFFECTS HAVE BEEN OBSERVED IN ONE BACTERIAL TEST, 3 INSECT |
|TESTS AND ONE IN VITRO MAMMILIAN CELL TEST FOR HYDROCHLORIC ACID. |

SECTION VII - PREVENTIVE MEASURES

|PERSONAL PROTECTIVE EQUIPMENT: |

| GLOVES: NEOPRENE, NATURAL RUBBER, BUTYL RUBBER, NITRILE RUBBER |
|RESPIRATORY: NONE FOR NORMAL USE. CANISTER TYPE SUITABLE FOR |
| HYDROCHLORIC ACID MISTS AND VAPOURS AT IRRITATING |
| EXPOSURE LEVELS. |
| EYES: CHEMICAL GOGGLES AND FACE SHIELD. |
| FOOTWEAR: IMPERMEABLE. |
| CLOTHING: IMPERMEABLE. COVER EXPOSED SKIN. |
| OTHER: EYE WASH AND SAFETY SHOWER |
|ENGINEERING CONTROLS: PROVIDE ADEQUATE VENTILATION TO MAINTAIN TLV |
| AT <2PPM. MECHANICAL VENTILATION FOR CONFINED SPACES. |

|LEAK AND SPILL PROCEDURE: DO NOT ALLOW CHEMICAL TO ENTER SEWERS OR |
|WATERWAYS. WITH LARGE SPILL, DYKE FOR LATER DISPOSAL. EVACUATE |
|UPWIND; WEAR PROTECTIVE CLOTHING. DILUTE SPILL TO REDUCE FUMES, |
|NEUTRALIZE. KEEP MATERIAL FROM METAL STRUCTURES. |

|LEAK AND SPILL PROCEDURE: WEAR RECOMMENDED PROTECTIVE EQUIPMENT. |
|CONTAIN SPILL. PUMP TO SUITABLE CONTAINER FOR RECLAIM OR DISPOSAL. |
|NEUTRALIZE RESIDUAL WITH SODA ASH OR SODIUM CARBONATE. ABSORB ONTO |
|INERT ABSORBENT AND SCOOP INTO CONTAINER FOR DISPOSAL. FLUSH AREA |
|WITH QUANTITIES OF WATER. |



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SECTION VIII - FIRST AID MEASURES

PROCEDURES:

EYES-HOLD EYELIDS OPEN AND WASH THOROUGHLY WITH CLEAN WATER FOR AT LEAST 30 MINUTES. GET MEDICAL HELP PROMPTLY.

SKIN-REMOVE CONTAMINATED CLOTHING IMMEDIATELY AND FLUSH WITH CLEAN WATER FOR AT LEAST 30 MINUTES. GET PROMPT MEDICAL ATTENTION. LAUNDER CLOTHING BEFORE REUSE.

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. DRINK 1-2 GLASSES OF MILK OR WATER. GET IMMEDIATE MEDICAL ATTENTION. DO NOT GIVE FLUIDS IF PERSON IS CONVULSING OR UNCONSCIOUS.

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, ACIDIC, INORGANIC, N.O.S. (HYDROCHLORIC ACID)	8	3264	II

HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID BREATHING VAPOURS. USE IN ADEQUATELY VENTILATED AREAS. WASH THOROUGHLY AFTER HANDLING.

STORAGE REQUIREMENTS: STORE CONTAINERS AWAY FROM METALS AND OXIDIZING AGENTS (PARTICULARLY NITRIC ACID AND CHLORATES). SAFEGUARD FROM MECHANICAL DAMAGE. KEEP OUT OF SUN AND ALL DIRECT HEAT SOURCES. KEEP CONTAINER CLOSED WHEN NOT IN USE.

SPECIAL SHIPPING INFORMATION: HEATED; DO NOT SHIP WITH ALKALIES.

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

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