



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:

B2, D1B, D2A, E

MATERIAL REFERENCE NO: 766100

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KEMTREET RT 661	
CHEMICAL NAME : NOT APPLICABLE	CHEMICAL FAMILY : ALKALINE BLEND
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: NOT APPLICABLE
SYNONYMS: NONE	
MATERIAL USE: STEAM LINE ANTI-CORROSION TREATMENT	

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. % CONCEN.	TLV PPM	C.A.S. N.A. U.N. NUMBERS	LD 50 ORAL, RAT
DIETHYL (2-HYDROXY ETHYL)AMINE	5.0-15.0	10	100-37-8	1300 MG/KG

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID		
ODOUR AND APPEARANCE: AMBER LIQUID; AMINE ODOUR.		
ODOUR THRESHOLD (PPM) NOT AVAILABLE	SPECIFIC GRAVITY 0.985	VAPOUR PRESSURE (MM) 760 AT 93.3 (C)
VAPOUR DENSITY (AIR=1) NOT AVAILABLE	EVAPORATION RATE (WATER = 1) 1.1	SOLUBILITY IN WATER (20°C) COMPLETE
BOILING POINT (C) 103	FREEZING POINT (C) NOT AVAILABLE	% VOLATILE (BY WEIGHT) 100
pH (10% SOLUTION) 10.5-11.5	DENSITY (G/ML) NOT APPLICABLE	COEF.OF WATER/OIL DISTR NOT AVAILABLE

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SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

FLAMMABILITY: COMBUSTIBLE	IF YES, UNDER WHICH CONDITIONS: HIGH TEMPERATURES	
MEANS OF EXTINCTION: CHEMICAL FOAM, CARBON DIOXIDE, WATER FOG		
SPECIAL PROCEDURES: WEAR FULL PROTECTIVE GEAR INCLUDING SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER.		
FLASH POINT (C) AND METHOD: 60 (TCC)		
HAZARDOUS COMBUSTION PRODUCTS: MAY EVOLVE NITROGEN OXIDES, CARBON MONOXIDE, CARBON DIOXIDE.		
UPPER EXPLOSION LIMIT NOT AVAILABLE	LOWER EXPLOSION LIMIT NOT AVAILABLE	AUTOIGNITION TEMP(C) NOT AVAILABLE
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: NORMALLY STABLE	IF NO, UNDER WHICH CONDITIONS: HIGH TEMPERATURES
INCOMPATIBILITY TO OTHER SUBSTANCES: YES IF SO, WHICH ONES: AVOID CONTACT WITH STRONG ACIDS, OXIDIZING AGENTS CAN REACT WITH NITRITES TO FORM CARCINOGENIC NITROSAMINES.	
REACTIVITY AND UNDER WHAT CONDITIONS: NO HAZARDOUS POLYMERIZATION WILL NOT OCCUR.	
HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION CAN EVOLVE OXIDES OF NITROGEN AND CARBON.	

SECTION VI - HEALTH HAZARD DATA

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

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EFFECTS OF ACUTE EXPOSURE TO MATERIAL:

EYES-CONTACT MAY CAUSE SEVERE IRRITATION, PAIN, TEARING. CONJUNCTIVITIS, CORNEAL INJURY.

SKIN-CONTACT MAY CAUSE SEVERE IRRITATION, POSSIBLE TISSUE DAMAGE.

INHALATION-OF HIGH CONCENTRATIONS MAY CAUSE IRRITATION OF RESPIRATORY TRACT, CHEST DISCOMFORT.

INGESTION-MAY CAUSE IRRITATION AND POSSIBLE BURNS TO LIPS, MOUTH THROAT, OESOPHAGUS AND STOMACH, NAUSEA, VOMITING, DIARRHEA, DIZZINESS, DROWZINESS, FATIGUE, THIRST.

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:

SKIN-REPEATED CONTACT MAY RESULT IN CUMULATIVE DERMATITIS.

LD 50 OF MATL.	LC 50 OF MATL.	EXPOSURE LIMIT(S)	IRRITANCY OF MATL
NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	TOXIC

SENSITIZATION OF MATERIAL NOT AVAILABLE	SYNERGISTIC MATERIALS NOT AVAILABLE
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CARCINOGENICITY-NOT AVAILABLE
REPRODUCTIVE EFFECTS- NOT AVAILABLE
MUTAGENICITY-NOT AVAILABLE
TERATOGENICITY- NOT AVAILABLE

SECTION VII - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

GLOVES: NEOPRENE
RESPIRATORY: NIOSH APPROVED RESPIRATOR APPROVED FOR ORGANIC VAPOURS.
EYE: FACE SHIELD OR SAFETY GOGGLES
CLOTHING: IMPERMEABLE
OTHER: EYE WASH AND SAFETY SHOWER
ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): LOCAL AS NEEDED TO CONTROL FUMES.

LEAK AND SPILL PROCEDURE: REMOVE IGNITION SOURCES. STOP LEAKS AND CONTAIN SPILL. TRANSFER TO SUITABLE CONTAINER FOR RECLAIM OR DISPOSAL. ABSORB REMAINING MATERIAL ONTO NON COMBUSTIBLE ABSORBANT AND SCOOP INTO DISPOSAL CONTAINER.

WASTE DISPOSAL: DISPOSE 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 15 MINUTES AND SEEK MEDICAL ATTENTION.
SKIN-REMOVE CONTAMINATED CLOTHING AND FLUSH AFFECTED AREA WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION. LAUNDER CLOTHING BEFORE REUSE.
INHALATION-MOVE VICTIM TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF NOT BREATHING, ADMINISTER ARTIFICIAL RESPIRATION AND THEN GIVE OXYGEN. GET MEDICAL ATTENTION.
INGESTION-IF SWALLOWED-DO NOT INDUCE VOMITING. DO NOT GIVE FLUIDS. 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.	PG
CORROSIVE LIQUID, FLAMMABLE, N.O.S. (DIETHYLETHANOLAMINE)	8(3)	2920	II

HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH EYES AND SKIN. USE IN WELL VENTILATED AREA. WASH THOROUGHLY AFTER HANDLING.

STORAGE REQUIREMENTS: STORE IN A COOL, DRY WELL VENTILATED AREA IN ORIGINAL CONTAINER PROPERLY SEALED. DO NOT STORE NEAR INCOMPATIBLE MATERIALS.

SPECIAL SHIPPING INFORMATION: HEATED

SECTION X - HMIS HAZARD RATING INFORMATION

FLAMMABILITY	REACTIVITY	HEALTH
2	0	2

SECTION XI - PREPARATION DATE OF MSDS

PREPARED BY: TECHNICAL DEPARTMENT TELEPHONE # (905) 456-9444
REVIEWED: JANUARY 12, 2003

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