

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: B3

MATERIAL REFERENCE NO: 591100					
SECTION I - MATERIAL IDENTIFICATION AND USE					
MATERIAL NAME/I.D.: KEMTREET RT #911					
CHEMICAL NAME: DIETHANOLAMINOETHANOL CHEMICAL FAMILY: ALKYL HYDROXYL AMINE					
CHEMICAL FORMULA: MIXTURE MOLECULAR WEIGHT: MIXTURE					
SYNONYMS: DEHA					
MATERIAL USE: CORROSION CONTROL					
SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL					
HAZARDOUS INGREDIENTS	APPROX. % CONCENT.				LD 50 ORAL, RAT
 N,N-DIETHYLHYDROXYL AMINE	10.0-30.0	NOT NOT AVAILABLE 	3710-84-7		2190 MG/KG
SECTION III - PHYSICAL DATA FOR MATERIAL					
ODOUR AND APPEARANCE: CLEAR, LIGHT STRAW COLOURED; AMINE ODOUR.					
i i		 IFIC GRAVITY).974		VAPOUR PRESSURE (MM) NOT AVAILABLE	
VAPOUR DENSITY (AIR=1) EVAPORATION RATE NOT ESTABLISHED					
BOILING POINT (C) FREEZING POINT (C) >100 >0			% VOLATILE (BY WEIGHT) 100		
pH (10% SOLUTION) DENSITY (G/ML) 10.0-11.0 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 HEAT SOURCE

|MEANS OF EXTINCTION: DRY CHEMICAL OR FOAM, CARBON DIOXIDE, WATER FOG

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SPECIAL PROCEDURES: WEAR FULL PROTECTIVE GEAR INCLUDING SELF-CONTAINED BREATHING APPARATUS. VAPOURS ARE HEAVIER THAN AIR AND CAN TRAVEL TO A SOURCE OF IGNITION.

THE TO IT DOORGE OF TOWNTHOW.

| FLASH POINT (C) AND METHOD: 46.1 (TCC)

HAZARDOUS COMBUSTION PRODUCTS: MAY EVOLVE CARBON DIOXIDE, CARBON MONOXIDE, NOX PRODUCTS.

UPPER EXPLOSION LIMIT	LOWER EXPLOSION LIMIT	AUTOIGNITION TEMP(C)
NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
EXPLOSION DATA SENSITIVITY	RATE OF BURNING	EXPLOSIVE POWER
TO CHEMICAL IMPACT		
NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE

|SENSITIVITY TO STATIC DISCHARGE: NOT AVAILABLE

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SECTION V - REACTIVITY DATA

CHEMICAL STABILITY: STABLE

| IF NO, UNDER WHICH CONDITIONS: DEHA BEGINS TO SLOWLY DECOMPOSE AT | 120-130 C.

INCOMPATIBILITY TO OTHER SUBSTANCES: YES

IF SO, WHICH ONES: OXIDIZERS.

REACTIVITY AND UNDER WHAT CONDITIONS: YES

OXIDIZERS MAY REACT WITH AMINES TO FORM NITROSAMINES.

HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

| HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION MAY EVOLVE | DIETHYLAMINE.

SECTION VI - HEALTH HAZARD DATA

| ROUTE OF ENTRY:

SKIN CONTACT: YES SKIN ABSORPTION: YES EYE CONTACT: YES | INHALATION: YES INGESTION: YES |

| INGLSITON: ILS INGLSITON: ILS



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EFFECTS OF ACUTE EXPOSURE TO MATERIAL:

EYES-CONTACT MAY CAUSE IRRITATION.

SKIN-PROLONGED CONTACT MAY CAUSE IRRITATION.

INGESTION-CAN RESULT IN HEADACHE, LOW BLOOD PRESSURE, DIZZINESS, NAUSEA, VOMITING, BLUE DISCOLOURATION OF LIPS.

| EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:

NOT ESTABLISHED

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

NOT AVAIDADDE | NOT AVAIDADDE | NOT AVAIDADDE | NOT AVAIDADDE

| SENSITIZATION OF MATERIAL | SYNERGISTIC MATERIALS | NOT AVAILABLE | NOT AVAILABLE

|CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY | NO DATA

SECTION VII - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

GLOVES: SYNTHETIC RUBBER

RESPIRATORY: LOCAL VENTILATION OR MSA APPROVED CARTRIDGE.

EYE: SAFETY GLASSES CLOTHING: IMPERMEABLE

OTHER: EYE WASH AND SAFETY SHOWER

ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): LOCAL IS

SUFFICIENT.

|LEAK AND SPILL PROCEDURE: STOP LEAKS AND CONTAIN SPILL. SMALL SPILLS|

CAN BE WASHED DOWN FLOOR DRAIN WITH LARGE VOLUMES OF WATER.

LARGE SPILLS-TRANSFER TO CONTAINER FOR RECLAIM OR DISPOSAL. ABSORB

RESIDUE ONTO ABSORBANT AND PLACE IN CONTAINER FOR DISPOSAL.

|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. IF PAIN OR IRRITATION PERSIST, SEEK MEDICAL ASSISTANCE. | SKIN-REMOVE CONTAMINATED CLOTHING AND FLUSH AFFECTED AREA WITH | WATER FOR 15 MINUTES. IF PAIN OR IRRITATION PERSIST, SEEK MEDICAL | ASSISTANCE. LAUNDER CLOTHING BEFORE REUSE.

INHALATION-MOVE VICTIM TO FRESH AIR. GET MEDICAL ATTENTION. INGESTION, IF SWALLOWED-DO NOT INDUCE VOMITING. GIVE LARGE AMOUNT OF WATER. GET MEDICAL ATTENTION IMMEDIATELY.

|SOURCES USED: RAW MATERIAL SUPPLIER'S MATERIAL SAFETY DATA SHEETS |

|ADDITIONAL INFORMATION: NONE

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SECTION IX - TDG SHIPPING INFORMATION

| SHIPPING NAME | CLASS | UN NO. | PACKING GROUP | FLAMMABLE LIQUID N.O.S. | 3 | 1993 | III | (DIETHYLHYDROXYLAMINE) | |

| HANDLING PROCEDURES AND EQUIPMENT: | AVOID CONTACT WITH SKIN AND CLOTHING.

STORAGE REQUIREMENTS: STORE IN A COOL, DRY WELL VENTILATED AREA IN ORIGINAL CONTAINER. KEEP FROM FREEZING.

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SPECIAL SHIPPING INFORMATION: NONE

SECTION X - HMIS HAZARD RATING INFORMATION

SECTION XI - PREPARATION DATE OF MSDS

| PREPARED BY: TECHNICAL DEPARTMENT TELEPHONE # (905) 456-9444 | REVIEWED: JANUARY 22, 2003

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