



# 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: 590500

## SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KEMTREET RT #905	
CHEMICAL NAME : NOT APPLICABLE	CHEMICAL FAMILY : ALKALINE BLEND
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: NOT APPLICABLE
SYNONYMS: NONE	
MATERIAL USE: RETURN LINE TREATMENT	

## SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. % CONCENT.	TLV PPM	C.A.S. N.A. U.N. NUMBERS	LD 50 ORAL, RAT
2-AMINO-2-METHYL-1- PROPANOL	3.0-7.0	NOT AVAILABLE	124-68-5	NOT AVAILABLE
CYCLOHEXYLAMINE	3.0-7.0	10	108-91-8	156 MG/KG ORAL RABBIT

## SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID		
ODOUR AND APPEARANCE: CLEAR, AMBER LIQUID; AMINE ODOUR.		
ODOUR THRESHOLD (PPM) NOT AVAILABLE	SPECIFIC GRAVITY 0.99	VAPOUR PRESSURE (MM) NOT AVAILABLE
VAPOUR DENSITY (AIR=1) >1	EVAPORATION RATE NOT ESTABLISHED	SOLUBILITY IN WATER (20°C) COMPLETE
BOILING POINT (C) 100	FREEZING POINT (C) <100	% VOLATILE (BY WEIGHT) 100
pH (10% SOLUTION) 11.0-12.0	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: FLAMMABLE		
IF YES, UNDER WHICH CONDITIONS: VAPOURS MAY BE FLAMMABLE.		
MEANS OF EXTINCTION: ALCOHOL FOAM, CO2, WATER FOG.		
SPECIAL PROCEDURES: WEAR FULL PROTECTIVE GEAR INCLUDING SELF-CONTAINED BREATHING APPARATUS. VAPOURS ARE HEAVIER THAN AIR AND MAY TRAVEL TO IGNITION SOURCE AND FLASH BACK.		
FLASH POINT (C) AND METHOD: MINIMUM 31.7 (C)		
HAZARDOUS COMBUSTION PRODUCTS: MAY EVOLVE NITROGEN OXIDES, SMOKE, SOOT, CARBON DIOXIDE, CARBON MONOXIDE.		
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		

## SECTION V - REACTIVITY DATA

CHEMICAL STABILITY: STABLE		
IF NO, UNDER WHICH CONDITIONS:		
INCOMPATIBILITY TO OTHER SUBSTANCES: YES		
IF SO, WHICH ONES: AVOID CONTACT WITH STRONG ACIDS, OXIDIZING AGENTS		
REACTIVE METALS.		
REACTIVITY AND UNDER WHAT CONDITIONS: NO		
HAZARDOUS POLYMERIZATION WILL NOT OCCUR.		
HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION MAY EVOLVE		
NITROUS OXIDES. CARBON MONOXIDE, CARBON DIOXIDE.		

## 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:  
EYES-MAY CAUSE STINGING, WATERING. PROLONGED CONTACT MAY CAUSE PERMANENT EYE INJURY.  
SKIN-MAY CAUSE ITCHING OR TINGLING, INFLAMMATION, POSSIBLE BURNS.  
INHALATION-MAY CAUSE IRRITATION OF NOSE, EYES AND THROAT, COUGHING. EXCESSIVE INHALATION MAY CAUSE BRONCHITIS, PULMONARY EDEMA AND CHEMICAL PNEUMONITIS.  
INGESTION-MAY CAUSE IRRITATION AND BURNING SENSATION OF LIPS, MOUTH AND THROAT, PAIN IN SWALLOWING, GASTRO-INTESTINAL IRRITATION, ABDOMINAL PAIN, NAUSEA AND VOMITING.

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: NO DATA

LD 50 OF MATL. NOT AVAILABLE	LC 50 OF MATL. NOT AVAILABLE	EXPOSURE LIMIT(S) NOT AVAILABLE	IRRITANCY OF MATL. TOXIC
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SENSITIZATION OF MATERIAL NOT AVAILABLE	SYNERGISTIC MATERIALS NOT AVAILABLE
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CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY  
REPRODUCTIVE EFFECTS-CYCLOHEXYLAMINE CAUSES PATERNAL EFFECTS IN ANIMAL STUDIES AT MODERATE TO HIGH DOSAGES.  
MUTAGENICITY-CYCLOHEXYLAMINE CAUSES SOME CHROMOSOMAL ABBERATIONS IN ANIMALS. SEVERAL OTHER INVESTIGATIONS HAVE NEGATIVE RESULTS.  
TERATOGENICITY-CYCLOHEXYLAMINE CAUSES POST-IMPLANT MORTALITY IN ANIMALS FROM DOSAGES NEAR THE LC50.

## SECTION VII - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

GLOVES: RUBBER OR VINYL  
RESPIRATORY: WORN BY PERSONS SENSITIVE TO FUMES  
EYE: FACE SHIELD OR SAFETY GOGGLES  
CLOTHING: LONG SLEEVED SHIRTS, TROUSERS, BUTYL RUBBER BOOTS AND APRON.  
OTHER: EYE WASH AND SAFETY SHOWER  
ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): MECHANICAL RECOMMENDED.

LEAK AND SPILL PROCEDURE: WEAR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT. STOP LEAKS AND CONTAIN SPILL. RECLAIM IF POSSIBLE.  
SMALL SPILLS-WIPE UP OR MOP UP AND PLACE IN DISPOSAL CONTAINER.  
LARGE SPILLS-ABSORB ONTO NON-COMBUSTIBLE ABSORBENT AND PLACE IN APPROVED CONTAINER FOR DISPOSAL. DO NOT ALLOW LIQUID TO FLOW INTO WATERWAYS. PRODUCT IS EXPECTED TO BE TOXIC TO AQUATIC LIFE.

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. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION. INGESTION, IF SWALLOWED-DO NOT INDUCE VOMITING. GIVE WATER, VINEGAR AND WATER OR FRUIT JUICE. IF VOMITING OCCURS GIVE FLUIDS AGAIN. 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, FLAMMABLE N.O.S. (CYCLOHEXYLAMINE)	8 (3)	2920	II
HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH STRONG ACIDS OR REDUCING AGENTS. WASH THOROUGHLY AFTER HANDLING.			
STORAGE REQUIREMENTS: STORE IN A COOL, DRY WELL VENTILATED AREA IN ORIGINAL CONTAINER. KEEP CONTAINER CLOSED WHEN NOT IN USE.			
SPECIAL SHIPPING INFORMATION: NONE			

## SECTION X - HMIS HAZARD RATING INFORMATION

FLAMMABILITY	REACTIVITY	HEALTH
3	0	2

## SECTION XI - PREPARATION DATE OF MSDS

PREPARED BY: TECHNICAL DEPARTMENT	TELEPHONE # (905) 456-9444
REVIEWED: DECEMBER 14, 2002	

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