



# 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, D2B, E

MATERIAL REFERENCE NO: 745700

## SECTION I - MATERIAL IDENTIFICATION AND USE

|                                     |                                  |
|-------------------------------------|----------------------------------|
| MATERIAL NAME/I.D.: KEMTREET 457    |                                  |
| 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<br>  INGREDIENTS      | APPROX.<br>  % CONCENT. | TLV<br>  PPM       | C.A.S.<br>  NUMBERS | LD 50<br>  ORAL, RAT |
|---------------------------------|-------------------------|--------------------|---------------------|----------------------|
| AMINO-2-METHYL-2-<br>  PROPANOL | 5.0-10.0                | NOT<br>  AVAILABLE | 124-68-5            | 2900 MG/KG           |
| CYCLOHEXYLAMINE                 | 5.0-10.0                | 10                 | 108-91-8            | 11 MG/KG             |
|                                 |                         |                    |                     |                      |
|                                 |                         |                    |                     |                      |
|                                 |                         |                    |                     |                      |

## SECTION III - PHYSICAL DATA FOR MATERIAL

|                                                         |                    |                         |  |
|---------------------------------------------------------|--------------------|-------------------------|--|
| PHYSICAL STATE: LIQUID                                  |                    |                         |  |
| ODOUR AND APPEARANCE: CLEAR, AMBER LIQUID; AMINE ODOUR. |                    |                         |  |
| ODOUR THRESHOLD (PPM)                                   | SPECIFIC GRAVITY   | VAPOUR PRESSURE (MM)    |  |
| NOT AVAILABLE                                           | 0.984              | NOT AVAILABLE           |  |
| VAPOUR DENSITY (AIR=1)                                  | EVAPORATION RATE   | SOLUBILITY IN WATER     |  |
| >1                                                      | NOT ESTABLISHED    | (20øC) SOLUBLE          |  |
| BOILING POINT (C)                                       | FREEZING POINT (C) | % VOLATILE (BY WEIGHT)  |  |
| > 100                                                   | NOT AVAILABLE      | 100                     |  |
| pH (10% SOLUTION)                                       | DENSITY (G/ML)     | COEF.OF WATER/OIL DISTR |  |
| 11.0-12.0                                               | NOT APPLICABLE     | NOT AVAILABLE           |  |



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## SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

|                                                                      |                       |                      |  |
|----------------------------------------------------------------------|-----------------------|----------------------|--|
| FLAMMABILITY: FLAMMABLE                                              |                       |                      |  |
| IF YES, UNDER WHICH CONDITIONS: VAPOURS IN A SEALED CONTAINER 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 (CLOSED CUP)                |                       |                      |  |
| -----                                                                |                       |                      |  |
| HAZARDOUS COMBUSTION PRODUCTS: MAY EVOLVE OXIDES OF CARBON AND       |                       |                      |  |
| NITROGEN, AMMONIA, CYANIDES, NITROGEN COMPOUNDS, TOXIC FUMES,        |                       |                      |  |
| HYDROCARBONS.                                                        |                       |                      |  |
| -----                                                                |                       |                      |  |
| 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 |  |  |  |
| NITRITES, REACTIVE METALS (i.e. COPPER, ZINC, ALUMINUM, GALVANIZE).  |  |  |  |
| REACTIVITY AND UNDER WHAT CONDITIONS: NOT AVAILABLE.                 |  |  |  |
| HAZARDOUS POLYMERIZATION WILL NOT OCCUR.                             |  |  |  |
|                                                                      |  |  |  |
| HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF CARBON AND NITROGEN,     |  |  |  |
| AMMONIA, CYANIDES, NITROGEN COMPOUNDS.                               |  |  |  |
|                                                                      |  |  |  |

## 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 SEVERE IRRITATION, BURNING SENSATION, PAIN, INTENSE |  
|WATERING, CORNEAL INJURY, PERMANENT EYE INJURY. |  
|SKIN-MAY CAUSE SEVERE IRRITATION, INFLAMMATION, BURNS, LOCAL REDNESS |  
|SWELLING, ALLERGIC SKIN REACTION. |  
|INHALATION-MAY CAUSE SEVERE IRRITATION OF NOSE AND THROAT. BREATHING |  
|OF HIGH CONCENTRATIONS OF VAPOUR OR MIST CAN CAUSE BURNS TO |  
|RESPIRATORY TRACT. |  
|INGESTION-MAY CAUSE IRRITATION OF GASTROINTESTINAL TRACT. CAN CAUSE |  
|BURNS TO MOUTH, THROAT AND STOMACH. MAY CAUSE ABDOMINAL DISCOMFORT, |  
|NAUSEA, VOMITING, DIARRHEA. |  
-----

|EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: NO DATA |  
| |

-----  
|LD 50 OF MATL. |LC 50 OF MATL. |EXPOSURE LIMIT(S) |IRRITANCY OF MATL |  
| NOT AVAILABLE | NOT AVAILABLE | NOT AVAILABLE |MODERATE TO SEVERE |  
-----

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

|CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY |  
|REPRODUCTIVE EFFECTS-CYCLOHEXYLAMINE MAY CAUSE ADVERSE REPRODUCTIVE |  
|EFFECTS BASED ON ANIMAL STUDIES. |  
|

C 3.5734



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## SECTION VIII - FIRST AID MEASURES

| PROCEDURES: EYES-IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR AT |  
| LEAST 15 MINUTES. GET IMMEDIATE MEDICAL ASSISTANCE. |  
| SKIN-REMOVE CONTAMINATED CLOTHING AND FLUSH AFFECTED AREA WITH |  
| WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ASSISTANCE. LAUNDRER |  
| CLOTHING BEFORE REUSE. |  
| INHALATION-MOVE VICTIM TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE |  
| OXYGEN. GET MEDICAL ATTENTION. |  
| INGESTION, DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO |  
| AN UNCONSCIOUS OR CONVULSING PERSON. 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. | 8(3)  | 2920   | II |
| (CYCLOHEXYLAMINE)                   |       |        |    |

| HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH EYES, SKIN AND |  
| CLOTHING. USE IN WELL VENTILATED AREA ONLY. 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 |
| REVISED: OCTOBER 10, 2009         | REPLACES: JUNE 22, 2005    |

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