



# 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: D2A, D2B, E

MATERIAL REFERENCE NO: 561400

## SECTION I - MATERIAL IDENTIFICATION AND USE

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 | MATERIAL NAME/I.D.: KEMTREET SB 614 |  
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 | CHEMICAL NAME: NOT APPLICABLE | CHEMICAL FAMILY: ALKALINE BLEND |  
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 | CHEMICAL FORMULA: MIXTURE | MOLECULAR WEIGHT: NOT APPLICABLE |  
 -----  
 | SYNONYMS: NONE |  
 -----  
 | MATERIAL USE: BOILER TREATMENT COMPOUND |  
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## 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 |
|--------------------------|-----------------------|------------|-------------------|--------------------|
| SODIUM HYDROXIDE         | 3.0-7.0               | 2 MG/M3    | 1310-73-2         | 140 MG/KG          |
| SODIUM SULFITE           | 1.0-5.0               | NO DATA    | 7757-83-7         | 820 MG/KG          |
|                          |                       | AVAILABLE  |                   | (MOUSE)            |
| SODIUM MOLYBDATE         | 1.0-5.0               | 5          | 10102-40-6        | NOT                |
|                          |                       | (as Mo)    |                   | AVAILABLE          |
| MORPHOLINE               | 1.0-5.0               | 20         | 110-91-8          | 1450 MG/KG         |
|                          |                       |            |                   |                    |

## SECTION III - PHYSICAL DATA FOR MATERIAL

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 | PHYSICAL STATE: LIQUID |  
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 | ODOUR AND APPEARANCE: CLEAR, YELLOW TO AMBER COLOUR; MILD ACRID |  
 | ODOUR. |  
 -----  
 | ODOUR THRESHOLD (PPM) | SPECIFIC GRAVITY | VAPOUR PRESSURE (MM) |  
 | NOT AVAILABLE | 1.115 | 760 AT 100 (C) |  
 -----  
 | VAPOUR DENSITY (AIR=1) | EVAPORATION RATE | SOLUBILITY IN WATER |  
 | <1 | (WATER=1) <1 | (20 ø C) COMPLETE |  
 -----  
 | BOILING POINT (C) | FREEZING POINT (C) | % VOLATILE (BY WEIGHT) |  
 | APPROX. 100 | NOT AVAILABLE | >82 |  
 -----  
 | pH (10% SOLUTION) | DENSITY (G/ML) | COEF.OF WATER/OIL DISTR |  
 | 12.5-13.5 | NOT APPLICABLE | NOT AVAILABLE |  
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## SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

|  |                       |                       |
|--|-----------------------|-----------------------|
| FLAMMABILITY: NON-FLAMMABLE  |                       |                       |
| IF YES, UNDER WHICH CONDITIONS:                                      |                       |                       |
| 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: MINIMUM 100 (TCC)                        |                       |                       |
| HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF CARBON, SULPHUR DIOXIDE GAS |                       |                       |
| SODIUM SULPHIDE RESIDUE, TOXIC ORGANIC VAPOURS, OXIDES OF            |                       |                       |
| PHOSPHOROUS AND SODIUM.  |                       |                       |
| UPPER EXPLOSION LIMIT  | LOWER EXPLOSION LIMIT | AUTOIGNITION TEMP (C) |
| NOT APPLICABLE   | NOT APPLICABLE        | NOT APPLICABLE        |
| EXPLOSION DATA SENSITIVITY   | RATE OF BURNING       | EXPLOSIVE POWER       |
| TO CHEMICAL IMPACT   |                       |                       |
| NOT AVAILABLE  | NOT APPLICABLE        | NOT APPLICABLE        |
| SENSITIVITY TO STATIC DISCHARGE: NOT AVAILABLE                       |                       |                       |

## SECTION V - REACTIVITY DATA

|  |  |  |
|--|--|--|
| CHEMICAL STABILITY: STABLE   |  |  |
| IF NO, UNDER WHICH CONDITIONS: NONE KNOWN                            |  |  |
| HAZARDOUS POLYMERIZATION WILL NOT OCCUR.                             |  |  |
| INCOMPATIBILITY TO OTHER SUBSTANCES: YES                             |  |  |
| IF SO, WHICH ONES: AVOID CONTACT WITH STRONG ACIDS, OXIDIZING AGENTS |  |  |
|  |  |  |
| REACTIVITY AND UNDER WHAT CONDITIONS: NOT ESTABLISHED.               |  |  |
|  |  |  |
| HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION CAN EVOLVE   |  |  |
| OXIDES OF CARBON, SULPHUR DIOXIDE GAS SODIUM SULPHIDE RESIDUE, TOXIC |  |  |
| ORGANIC VAPOURS, OXIDES OF PHOSPHOROUS AND SODIUM.                   |  |  |

## 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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## SECTION VIII - FIRST AID MEASURES

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| PROCEDURES: EYES-IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR 15 |  
 | MINUTES WHILE HOLDING EYELIDS OPEN. GET IMMEDIATE MEDICAL ATTENTION. |  
 | SKIN-REMOVE CONTAMINATED CLOTHING AND FLUSH AFFECTED AREA WITH |  
 | WATER FOR AT LEAST 15 MINUTES. IF PAIN OR IRRITATION PERSIST, SEEK |  
 | MEDICAL ASSISTANCE. LAUNDRER 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-DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. DO NOT |  
 | GIVE ANYTHING BY MOUTH IF PERSON IS UNCONSCIOUS OR CONVULSING. GET |  
 | IMMEDIATE MEDICAL ATTENTION. |

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

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| ADDITIONAL INFORMATION: NONE |

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## SECTION IX - TDG SHIPPING INFORMATION

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| SHIPPING NAME                                  | CLASS | UN NO. | PG  |
|--|-------|--------|-----|
| CORROSIVE LIQUID, N.O.S.<br>(SODIUM HYDROXIDE) | 8     | 1760   | III |

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| HANDLING PROCEDURES AND EQUIPMENT: WEAR PROPER PROTECTIVE CLOTHING. |  
 | AVOID CONTACT WITH EYES AND SKIN. WASH THOROUGHLY AFTER HANDLING. |  
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| STORAGE REQUIREMENTS: STORE IN A COOL, DRY, WELL-VENTILATED AREA. |  
 | KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP FROM FREEZING. |  
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| SPECIAL SHIPPING INFORMATION: HEATED |

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## SECTION X - HMIS HAZARD RATING INFORMATION

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| FLAMMABILITY | REACTIVITY | HEALTH |
|--------------|------------|--------|
| 0            | 0          | 2      |

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## SECTION XI - PREPARATION DATE OF MSDS

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| PREPARED BY: TECHNICAL DEPARTMENT      TELEPHONE # (905) 456-9444 |  
 | REVIEWED:      OCTOBER 10, 2009 |

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