



# 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: D2B, E

MATERIAL REFERENCE NO: 745500

## SECTION I - MATERIAL IDENTIFICATION AND USE

|                                      |                                  |
|--------------------------------------|----------------------------------|
| MATERIAL NAME/I.D.: KT # 455         |                                  |
| CHEMICAL NAME: NOT APPLICABLE        | CHEMICAL FAMILY: BLENDED PRODUCT |
| CHEMICAL FORMULA: MIXTURE            | MOLECULAR WEIGHT: NOT APPLICABLE |
| SYNONYMS: NONE                       |                                  |
| MATERIAL USE: STEAM BOILER 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 |
|----------------------------|-------------------------|--------------|---------------------|----------------------|
| SODIUM HYDROXIDE           | 5.0-10.0                | 2 MG/M3      | 1310-73-2           | 500 MG/KG            |
|                            |                         |              |                     | (ORAL LDLo (RBT)     |
| 2-PHOSPHONO-1,2,4,         | 1.0-5.0                 | NO DATA      | 37971-36-1          | >2000 MG/KG          |
| BUTANE-TRICARBOXYLIC       |                         | AVAILABLE    |                     |                      |
| ACID                       |                         |              |                     |                      |
| POLYMALEIC ACID            | 1.0-5.0                 | NOT          | 26099-09-2          | NOT                  |
| (SODIUM SALT)              |                         | AVAILABLE    |                     | AVAILABLE            |
|                            |                         |              |                     |                      |

## SECTION III - PHYSICAL DATA FOR MATERIAL

|                                                         |                    |                         |
|---------------------------------------------------------|--------------------|-------------------------|
| PHYSICAL STATE: LIQUID                                  |                    |                         |
| ODOUR AND APPEARANCE: CLEAR, AMBER COLOUR; ACRID ODOUR. |                    |                         |
| ODOUR THRESHOLD (PPM)                                   | SPECIFIC GRAVITY   | VAPOUR PRESSURE (MM)    |
| NOT ESTABLISHED                                         | 1.1                | NOT ESTABLISHED         |
| VAPOUR DENSITY (AIR=1)                                  | EVAPORATION RATE   | SOLUBILITY IN WATER     |
| NOT ESTABLISHED                                         | NOT AVAILABLE      | (20°C) COMPLETE         |
| BOILING POINT (C)                                       | FREEZING POINT (C) | % VOLATILE (BY VOLUME)  |
| NOT AVAILABLE                                           | NOT AVAILABLE      | ~80                     |
| pH (10.0 % SOLUTION)                                    | DENSITY (G/ML)     | COEF.OF WATER/OIL DISTR |
| 12.0-13.0                                               | NOT APPLICABLE     | NOT AVAILABLE           |



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SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

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| FLAMMABILITY: NON-FLAMMABLE

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|EFFECTS OF ACUTE EXPOSURE TO MATERIAL: |



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## SECTION VIII - FIRST AID MEASURES

PROCEDURES:  
EYE CONTACT: FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET IMMEDIATE MEDICAL ATTENTION.  
SKIN CONTACT: FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING. IF IRRITATION PERSISTS SEEK MEDICAL ATTENTION. LAUNDER CLOTHING BEFORE REUSE.  
INHALATION: REMOVE TO FRESH AIR. IS BREATHING IS DIFFICULT, GIVE OXYGEN AND GET IMMEDIATE MEDICAL ATTENTION.  
INGESTION: DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. DO NOT GIVE ANYTHING BY MOUTH IF VICTIM IS UNCONSCIOUS OR CONVULSING. GET MEDICAL ATTENTION IMMEDIATELY.

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 N.O.S.<br>(SODIUM HYDROXIDE) | 8     | 1760   | II            |

HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH EYES, SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING.

STORAGE REQUIREMENTS:  
STORE IN A COOL, DRY, WELL-VENTILATED AREA AWAY FROM INCOMPATIBLE MATERIALS. KEEP CONTAINER CLOSED WHEN NOT IN USE.

SPECIAL SHIPPING INFORMATION: NONE

## SECTION X - HAZARD RATING INFORMATION

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

## SECTION XI - PREPARATION DATE OF MSDS

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

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