



# 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: 517500

## SECTION I - MATERIAL IDENTIFICATION AND USE

|                                              |                                  |
|----------------------------------------------|----------------------------------|
| MATERIAL NAME/I.D.: CT 175                   |                                  |
| CHEMICAL NAME : NOT APPLICABLE               | CHEMICAL FAMILY : ALKALINE BLEND |
| CHEMICAL FORMULA: MIXTURE                    | MOLECULAR WEIGHT: MIXTURE        |
| MATERIAL USE: CORROSION AND SCALE PREVENTION |                                  |

## SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

| HAZARDOUS            | APPROX.    | TLV       | C.A.S. N.A.  | LD 50        |
|----------------------|------------|-----------|--------------|--------------|
| INGREDIENTS          | % CONCENT. | PPM       | U.N. NUMBERS | ORAL, RAT    |
| SODIUM HYDROXIDE     | 5.0-10.0   | 2 MG/M3   | 1310-73-2    | 140 MG/KG    |
| AMINOTRI (METHYLENE- | 3.0-7.0    | NOT       | 6419-19-8    | 2910 MG/KG   |
| PHOSPHONIC ACID      |            | AVAILABLE |              |              |
| SODIUM MOLYBDATE     | 3.0-7.0    | 5 MG/M3   | 10102-40-6   | NO DATA      |
| HYDROXYPHOSPHONO     | 1.0-5.0    | NO DATA   | 23783-26-8   | 2750 MG/KG   |
| ACETIC ACID          |            |           |              |              |
| PHOSPHINOCARBOXYLIC  | 1.0-5.0    | NO DATA   | 71050-62-9   | >5,000 MG/KG |
| ACID, SODIUM SALT    |            |           |              |              |
| SODIUM TOLYTRIAZOLE  | 1.0-5.0    | NO DATA   | 64665-57-21  | 920 MG/KG    |
|                      |            |           |              |              |
|                      |            |           |              |              |

## SECTION III - PHYSICAL DATA FOR MATERIAL

|                                                       |                    |
|-------------------------------------------------------|--------------------|
| PHYSICAL STATE: LIQUID                                |                    |
| ODOUR AND APPEARANCE: CLEAR, AMBER LIQUID, LOW ODOUR. |                    |
| ODOUR THRESHOLD (PPM)                                 | SPECIFIC GRAVITY   |
| NOT AVAILABLE                                         | 1.13               |
| VAPOUR DENSITY (AIR=1)                                | EVAPORATION RATE   |
| APPROXIMATELY 1                                       | (WATER=1) 0.9      |
| SOLUBILITY IN WATER                                   |                    |
| (20 ° C) SOLUBLE                                      |                    |
| BOILING POINT (C)                                     | FREEZING POINT (C) |
| 100                                                   | APPROX. 0 C        |
| % VOLATILE (BY WEIGHT)                                |                    |
| > 70                                                  |                    |
| pH ( CONCENTRATED )                                   | DENSITY (G/ML)     |
| 12.0-13.0                                             | NOT APPLICABLE     |
| COEF.OF WATER/OIL DISTR                               |                    |
| 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: WATER FOG, CARBON DIOXIDE, DRY CHEMICAL, FOAM. |                       |                       |  |
| SPECIAL PROCEDURES: APPROPRIATE FOR SURROUNDING MATERIALS.          |                       |                       |  |
|                                                                     |                       |                       |  |
|                                                                     |                       |                       |  |
| FLASH POINT (C) AND METHOD: NONE (TCC)                              |                       |                       |  |
| HAZARDOUS COMBUSTION PRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE,     |                       |                       |  |
| OXIDES OF NITROGEN, AMMONIA, POSSIBLE TRACE AMOUNTS OF PHOSPHINE.   |                       |                       |  |
|                                                                     |                       |                       |  |
| UPPER EXPLOSION LIMIT                                               | LOWER EXPLOSION LIMIT | AUTOIGNITION TEMP (C) |  |
| NOT APPLICABLE                                                      | NOT APPLICABLE        | NOT AVAILABLE         |  |
| EXPLOSION DATA SENSITIVITY                                          |                       |                       |  |
| TO CHEMICAL IMPACT                                                  |                       |                       |  |
| NOT AVAILABLE                                                       | NOT APPLICABLE        | 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: ACIDS, STRONG OXIDIZERS.                 |  |  |  |
|                                                             |  |  |  |
| REACTIVITY AND UNDER WHAT CONDITIONS: NOT ESTABLISHED       |  |  |  |
|                                                             |  |  |  |
|                                                             |  |  |  |
| HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION CAN |  |  |  |
| RELEASE OXIDES OF CARBON AND NITROGEN                       |  |  |  |

## 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-CONTACT CAN CAUSE IRRITATION |  
|SKIN-CONTACT CAN CAUSE IRRITATION |  
|INHALATION-EXCESSIVE INHALATION OF MISTS OR VAPOURS CAN CAUSE |  
| IRRITATION OF RESPIRATORY TRACT. |  
|INGESTION-CAN CAUSE IRRITATION OF GASTROINTESTINAL TRACT, NAUSEA, |  
| VOMITING. |  
|

|EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: |  
| NONE KNOWN |  
| |  
| |  
|

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

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

|CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY |  
|NONE KNOWN |  
| |  
| |  
|

## SECTION VII - PREVENTIVE MEASURES

|PERSONAL PROTECTIVE EQUIPMENT: |  
| |  
| GLOVES: RUBBER OR PLASTIC |  
|RESPIRATORY: NONE REQUIRED |  
| EYE: SAFETY GLASSES |  
| FOOTWEAR: IMPERMEABLE |  
| CLOTHING: IMPERMEABLE |  
| OTHER: EYE WASH AND SAFETY SHOWER |  
|ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): LOCAL |  
| IS SUFFICIENT. |

|LEAK AND SPILL PROCEDURE: SMALL SPILLS-WASH 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 OF IN ACCORDANCE WITH FEDERAL, PROVINCIAL AND LOCAL |  
| REGULATIONS. |  
|



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## SECTION VIII - FIRST AID MEASURES

PROCEDURES:  
EYES-FLUSH WITH RUNNING WATER FOR 15 MINUTES. IF IRRITATION PERSISTS  
GET MEDICAL ATTENTION.  
SKIN-FLUSH AFFECTED AREA WITH RUNNING WATER FOR 15 MINUTES WHILE  
REMOVING CONTAMINATED CLOTHING. IF IRRITATION PERSISTS, GET  
MEDICAL ATTENTION. LAUNDRER CLOTHING BEFORE REUSE.  
INHALATION-REMOVE TO FRESH AIR.  
INGESTION-If INGESTED DO NOT INDUCE VOMITING. GIVE WATER OR FRUIT  
JUICE TO DILUTE STOMACH CONTENTS. DO NOT GIVE FLUIDS IF PERSON IS  
UNCONSCIOUS OR CONVULSING. GET 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, N.O.S. | 8     | 1760   | III           |

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

STORAGE REQUIREMENTS: STORE IN A COOL, DRY AREA. KEEP FROM FREEZING.

SPECIAL SHIPPING INFORMATION: HEATED

## SECTION X - HMIS HAZARD RATING INFORMATION

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

## SECTION XI - PREPARATION DATE OF MSDS

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

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