



# 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: 518000

## SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: CT 180	
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 PRESSURE (MM)	
NOT AVAILABLE	
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   RATE OF BURNING			
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: FEBRUARY 19, 2004

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