



# 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: C, D1B, D2B, E

MATERIAL REFERENCE NO: 770000

## SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KEMTREET 770	
CHEMICAL NAME: NOT APPLICABLE	CHEMICAL FAMILY: ALKALINE BLEND
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: MIXTURE
SYNONYMS: NONE	
MATERIAL USE: CORROSION AND SCALE PREVENTION	

## SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS   INGREDIENTS	APPROX.   % CONCENT.	TLV   PPM	C.A.S.   NUMBERS	LD 50   ORAL, RAT
SODIUM HYDROXIDE	1.0-5.0	2 MG/M3	1310-73-2	500 MG/KG
				(LDLo RABBIT)
2-PHOSPHONO-1,2,4-	1.0-5.0	NO DATA	37971-36-1	>2000 MG/KG
BUTANE-TRICARBOXILIC				
ACID				
2-HYDROXYPHOSPHONO-	1.0-5.0	NO DATA	23783-26-8	2766 MG/KG
ACETIC ACID				
SODIUM NITRITE	3.0-7.0	NO DATA	7632-00-0	88 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	1.06
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)	
> 93	
pH ( CONCENTRATED )	DENSITY (G/ML)
10.5-11.5	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: WEAR FULL PROTECTIVE EQUIPMENT, INCLUDING SELF-			
CONTAINED BREATHING APPARATUS.			
FLASH POINT (C) AND METHOD: NONE (TCC)			
HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF CARBON, PHOSPHOROUS,			
NITROGEN, TOXIC ORGANIC VAPOURS AND FUMES.			
UPPER EXPLOSION LIMIT	LOWER EXPLOSION LIMIT	AUTOIGNITION TEMP (C)	
NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	
EXPLOSION DATA SENSITIVITY			
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: ACIDS, STRONG OXIDIZERS, REDUCING AGENTS,			
REACTIVE METALS (i.e. ALUMINUM, MILD STEEL.			
REACTIVITY AND UNDER WHAT CONDITIONS: PROLONGED EXPOSURE TO AIR CAN			
SLOWLY OXIDIZE SODIUM NITRITE TO SODIUM NITRATE.			
HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION CAN RELEASE			
OXIDES OF CARBON, PHOSPHOROUS, NITROGEN, TOXIC ORGANIC VAPOURS AND			
FUMES.			

## 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 MODERATE TO SEVERE IRRITATION. MAY CAUSE EYE DAMAGE.  
SKIN-CONTACT CAN CAUSE MODERATE IRRITATION.  
INHALATION-EXCESSIVE INHALATION OF MISTS OR VAPOURS CAN CAUSE IRRITATION OF RESPIRATORY TRACT.  
INGESTION-CAN CAUSE MODERATE IRRITATION OF GASTROINTESTINAL TRACT, NAUSEA, VOMITING. INGESTION OF LARGE AMOUNTS CAN RESULT IN ACUTE TOXIC EFFECTS WITH CONVERSION OF HAEMOGLOBIN TO METHEMOGLOBIN AND MARKED REDUCTION IN BLOOD PRESSURE.

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: REPEATED OR PROLONGED INHALATION OF VERY HIGH AMOUNTS OF MIST MAY CAUSE SYSTEMIC EFFECTS.

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

SENSITIZATION OF MATERIAL	SYNERGISTIC MATERIALS
NOT AVAILABLE	NOT AVAILABLE

CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY  
CONTAINS NITRITES WHICH MAY REACT WITH AMINES TO FORM NITROSAMINES.  
SOME NITROSAMINES HAVE BEEN SHOWN TO BE CARCINOGENIC IN LABORATORY ANIMALS.

## SECTION VII - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

GLOVES: IMPERMEABLE  
RESPIRATORY: NONE FOR NORMAL USE. NIOSH APPROVED RESPIRATOR IN CONFINED AREAS OR IF TLV IS EXCEEDED.  
EYE: SAFETY GLASSES  
FOOTWEAR: IMPERMEABLE  
CLOTHING: IMPERMEABLE  
OTHER: EYE WASH AND SAFETY SHOWER  
ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): NATURAL IS NORMALLY SUFFICIENT. PROVIDE LOCAL VENTILATION IN CONFINED OR POORLY VENTILATED AREAS TO MAINTAIN EXPOSURES WITHIN ACCEPTABLE LIMITS.

LEAK AND SPILL PROCEDURE: CONTAIN SPILL. WEAR RECOMMENDED SAFETY EQUIPMENT. TRANSFER TO SUITABLE, LABELED CONTAINER FOR RECLAIM OR DISPOSAL. ABSORB REMAINING MATERIAL ONTO INERT ABSORBANT AND PLACE IN CONTAINER FOR DISPOSAL. FLUSH RESIDUAL WITH VOLUMES OF WATER.

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 AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.  
SKIN-FLUSH AFFECTED AREA WITH RUNNING WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. LAUNDRY CLOTHING BEFORE REUSE.  
INHALATION-REMOVE TO FRESH AIR. IF SYMPTOMS PERSIST, GET MEDICAL ATTENTION.  
INGESTION-IF INGESTED DO NOT INDUCE VOMITING. GIVE WATER TO DILUTE STOMACH CONTENTS. DO NOT GIVE FLUIDS IF PERSON IS UNCONSCIOUS OR CONVULSING. 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
OXIDIZING LIQUID, N.O.S. (SODIUM NITRITE)	5.1	3139	III

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. KEEP CONTAINER CLOSED WHEN NOT IN USE. 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
REVISED: OCTOBER 10, 2009	REPLACES: NOVEMBER 23, 2005

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