



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

MATERIAL REFERENCE NO: 727800

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KEMTREET 278	
CHEMICAL NAME: NOT APPLICABLE	CHEMICAL FAMILY: NITRITES
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: NOT APPLICABLE
SYNONYMS: NONE	
MATERIAL USE: CLOSED SYSTEM CORROSION INHIBITOR	

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. % CONCENT.	TLV PPM	C.A.S. NUMBERS	LD 50 ORAL, RAT
SODIUM NITRITE	10.0-30.0	NO DATA	7632-00-0	180 MG/KG
TETRAPOTASSIUM PYROPHOSPHATE	1.0-5.0	NO DATA	7320-34-5	DERMAL LD50 4650 MG/KG (RABBIT)
SODIUM TRIPOLYPHOSPHATE	1.0-5.0	NO DATA	7758-29-4	4000 MG/KG

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID		
ODOUR AND APPEARANCE: CLEAR YELLOW LIQUID; MILD ODOUR.		
ODOUR THRESHOLD (PPM) NOT AVAILABLE	SPECIFIC GRAVITY 1.14	VAPOUR PRESSURE (MM) NOT AVAILABLE
VAPOUR DENSITY (AIR=1) NOT ESTABLISHED	EVAPORATION RATE (WATER=1) 1.0	SOLUBILITY IN WATER (20°C) COMPLETE
BOILING POINT (C) 100 (ESTIMATED)	FREEZING POINT (C) -3	% VOLATILE (BY WEIGHT) >80
pH (10% SOLUTION) 8.0-8.5	DENSITY (G/ML) 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: APPROPRIATE FOR SURROUNDING MATERIALS.			
SPECIAL PROCEDURES: WEAR FULL PROTECTIVE GEAR INCLUDING SELF-			
CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH			
WATER.			
FLASH POINT (C) AND METHOD: NONE (TCC)			
HAZARDOUS COMBUSTION PRODUCTS: MAY EVOLVE NITROGEN OXIDES, SMOKE,			
SOOT, CARBON DIOXIDE.			
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 AVAILABLE	
SENSITIVITY TO STATIC DISCHARGE: NOT AVAILABLE			

SECTION V - REACTIVITY DATA

CHEMICAL STABILITY: NORMALLY STABLE.		
IF NO, UNDER WHICH CONDITIONS: PROLONGED EXPOSURE TO AIR WILL SLOWLY		
OXIDIZE NITRITE TO NITRATE.		
INCOMPATIBILITY TO OTHER SUBSTANCES: YES		
IF SO, WHICH ONES: AVOID CONTACT WITH STRONG ACIDS, AMMONIUM		
COMPOUNDS, REDUCING AGENTS, THIOSULPHATES, THIOCYANATES, COMBUSTIBLE		
MATERIALS.		
REACTIVITY AND UNDER WHAT CONDITIONS: NO		
HAZARDOUS POLYMERIZATION WILL NOT OCCUR.		
HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF 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 MAY CAUSE IRRITATION. |
| SKIN-PROLONGED CONTACT MAY CAUSE LOCAL IRRITATION. |
| INHALATION-HIGH CONCENTRATIONS MAY CAUSE IRRITATION OF RESPIRATORY |
| TRACT AND LUNGS. |
| INGESTION-MAY IRRITATE MOUTH, THROAT AND STOMACH. INGESTION OF |
| LARGER AMOUNTS MAY RESULT IN ACUTE TOXIC EFFECTS WITH NAUSEA, |
| CONVERSION OF HAEMOGLOBIN TO METHEMOGLOBIN, MARKED REDUCTION IN |
| BLOOD PRESSURE. |

| EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: |
| INHALATION-PROLONGED OR REPEATED INHALATION MAY CAUSE SYSTEMIC |
| EFFECTS. |
| SKIN-PROLONGED CONTACT MAY CAUSE DERMATITIS. |

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

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

| CARCINOGENICITY-NOT A CARCINOGEN. NITRITES MAY REACT WITH AMINES TO |
| FORM NITROSAMINES. SOME NITROSOMINES HAVE BEEN SHOWN TO CAUSE CANCER |
| IN LABORATORY ANIMALS. |
| REPRODUCTIVE EFFECTS-NO DATA. |
| MUTAGENICITY- NO DATA. |

SECTION VII - PREVENTIVE MEASURES

| PERSONAL PROTECTIVE EQUIPMENT: |

| GLOVES: RUBBER OR VINYL |
| RESPIRATORY: MIST RESPIRATOR IF MISTY CONDITIONS PREVAIL OR IF TLV |
| EXCEEDS EXPOSURE LIMITS. |
| EYE: FACE SHIELD OR SAFETY GOGGLES |
| CLOTHING: IMPERMEABLE |
| OTHER: EYE WASH AND SAFETY SHOWER |
| ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): LOCAL AND |
| GENERAL VENTILATION IN CONFINED AREAS TO MAINTAIN AIRBORNE |
| CONCENTRATIONS BELOW PERMISSIBLE LEVELS. |

| LEAK AND SPILL PROCEDURE: STOP LEAKS AND CONTAIN SPILL. PREVENT |
| ENTRY INTO SEWERS OR STREAMS. TRANSFER TO SUITABLE CONTAINER FOR |
| RECLAIM OR DISPOSAL. ABSORB REMAINING MATERIAL ONTO INERT ABSORBENT |
| AND SCOOP INTO DISPOSAL CONTAINER. FLUSH RESIDUAL WITH VOLUMES OF |
| WATER. |

| WASTE DISPOSAL: DISPOSE IN ACCORDANCE WITH LOCAL, PROVINCIAL AND |
| FEDERAL REGULATIONS. |



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SECTION VIII - FIRST AID MEASURES

| PROCEDURES: EYES-IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR 15 |
| MINUTES. IF PAIN OR IRRITATION PERSIST, SEEK MEDICAL ASSISTANCE. |
| SKIN-REMOVE CONTAMINATED CLOTHING AND FLUSH AFFECTED AREA WITH |
| LARGE AMOUNTS OF SOAP AND WATER. IF PAIN OR IRRITATION PERSIST, SEEK |
| MEDICAL ASSISTANCE. LAUNDRY CLOTHING BEFORE REUSE. |
| INHALATION-MOVE VICTIM TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE |
| OXYGEN. GET MEDICAL ATTENTION. |
| INGESTION-IF SWALLOWED, DO NOT INDUCE VOMITING. RINSE MOUTH WITH |
| WATER. DO NOT GIVE LIQUIDS IF VICTIM 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.	PACKING GROUP
OXIDIZING LIQUID, TOXIC, N.O.S.	5.1(6.1)	3099	III
(SODIUM NITRITE)			

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

| STORAGE REQUIREMENTS: STORE IN A COOL, DRY, WELL-VENTILATED AREA IN |
| ORIGINAL CONTAINER. KEEP CONTAINER CLOSED WHEN NOT IN USE. |

| SPECIAL SHIPPING INFORMATION: OXIDIZER |

SECTION X - HMIS HAZARD RATING INFORMATION

FLAMMABILITY	REACTIVITY	HEALTH
0	1	1

SECTION XI - PREPARATION DATE OF MSDS

| PREPARED BY: TECHNICAL DEPARTMENT TELEPHONE # (905) 456-9444 |

| REVIEWED: OCTOBER 10, 2009 |

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