

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: 525000

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.:	KEMTREET CSL 250		
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	5.0-15.0	NO DATA	7632-00-0	180 MG/KG
BORAX PENTAHYDRATE	1.0-10.0	1 MG/M3	1303-86-2	NOT AVAILABLE
SODIUM MOLYBDATE	1.0-10.0	5 MG/M3	7631-95-0	920 MG/M3

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE:	LIQUID		
ODOUR AND APPEARANCE:	CLEAR YELLOW LIQUID; MILD ODOUR.		
ODOUR THRESHOLD (PPM)	SPECIFIC GRAVITY	VAPOUR PRESSURE (MM)	
NOT AVAILABLE	1.12	NOT AVAILABLE	
VAPOUR DENSITY (AIR=1)	EVAPORATION RATE (WATER = 1)	SOLUBILITY IN WATER (20°C)	COMPLETE
NOT AVAILABLE	1.0	(20°C)	COMPLETE
BOILING POINT (C)	FREEZING POINT (C)	% VOLATILE (BY WEIGHT)	
NOT AVAILABLE	NOT AVAILABLE	>90	
pH (1.0% SOLUTION)	DENSITY (G/ML)	COEF.OF WATER/OIL DISTR	
8.0-9.0	NOT APPLICABLE	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: CHEMICAL FOAM, CARBON DIOXIDE, WATER FOG

| SPECIAL PROCEDURES: WEAR FULL PROTECTIVE GEAR INCLUDING SELF-
| CONTAINED BREATHING APPARATUS.

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| FLASH POINT (C) AND METHOD: 121 (TCC)

| HAZARDOUS COMBUSTION PRODUCTS: MAY EVOLVE NITROGEN OXIDES, SMOKE,
| SOOT, CARBON DIOXIDE, CARBON MONOXIDE.

|

| UPPER EXPLOSION LIMIT | LOWER EXPLOSION LIMIT | AUTOIGNITION TEMP (C)
| NOT AVAILABLE | NOT AVAILABLE | NOT AVAILABLE

| EXPLOSION DATA SENSITIVITY | RATE OF BURNING | EXPLOSIVE POWER
| 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: AVOID CONTACT WITH STRONG ACIDS, AMMONIUM
| COMPOUNDS, REDUCING AGENTS.

| REACTIVITY AND UNDER WHAT CONDITIONS: NO

| HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

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| HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION MAY EVOLVE
| NITROUS OXIDES. CARBON MONOXIDE, SOOT AND SMOKE.

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 IRRITATION.
|INHALATION-MAY IRRITATE NOSE, THROAT AND LUNGS. HIGH CONCENTRATIONS
| OF MIST MAY CAUSE SYSTEMIC EFFECTS.
|INGESTION-MAY CAUSE IRRITATION OF MOUTH, THROAT, OESOPHAGUS AND
| STOMACH.
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|EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:
|INHALATION-MAY CAUSE CHEMICAL BRONCHITIS.
|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 | TOXIC

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

|CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY
|SODIUM NITRITE IS MUTAGENIC IN BACTERIAL AND MAMMALIAN CELLS AND
|SHOWED TUMORIGENIC AND REPRODUCTIVE EFFECTS IN ANIMAL STUDIES.
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SECTION VII - PREVENTIVE MEASURES

|PERSONAL PROTECTIVE EQUIPMENT:

| GLOVES: RUBBER OR VINYL
|RESPIRATORY: WORN BY PERSONS SENSITIVE TO FUMES
| EYE: FACE SHIELD OR SAFETY GOGGLES
| CLOTHING: IMPERMEABLE
| OTHER: EYE WASH AND SAFETY SHOWER
|ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): LOCAL TO
| MAINTAIN TLV WITHIN ACCEPTABLE LIMITS.

|LEAK AND SPILL PROCEDURE:STOP LEAKS AND CONTAIN SPILL. TRANSFER TO
|SUITABLE CONTAINER FOR RECLAIM OR DISPOSAL. ABSORB REMAINING RESIDUE
|ONTO INERT ABSORBENT AND SCOOP INTO DISPOSAL CONTAINER. FLUSH FLOOR
|WITH LARGE AMOUNTS 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 |
|WATER FOR 15 MINUTES. IF PAIN OR IRRITATION PERSIST, SEEK MEDICAL |
|ASSISTANCE. LAUNDER CLOTHING BEFORE REUSE. |
|INHALATION-MOVE VICTIM TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE |
|OXYGEN. IF NOT BREATHING, ADMINISTER ARTIFICIAL RESPIRATION AND THEN |
|GIVE OXYGEN. GET MEDICAL ATTENTION. |
|INGESTION-IF SWALLOWED-DO NOT INDUCE VOMITING. GIVE WATER, VINEGAR |
|AND WATER OR FRUIT JUICE. IF VOMITING OCCURS, GIVE FLUIDS AGAIN. |
|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. (SODIUM NITRITE)	5.1(6.1)	3099	III

|HANDLING PROCEDURES AND EQUIPMENT: WASH THOROUGHLY AFTER HANDLING |
|AVOID CONTACT WITH STRONG ACIDS |
|

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

|SPECIAL SHIPPING INFORMATION: HEATED |

SECTION X - HMIS HAZARD RATING INFORMATION

FLAMMABILITY	REACTIVITY	HEALTH
1	0	2

SECTION XI - PREPARATION DATE OF MSDS

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

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