



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: 520200

SECTION I - MATERIAL IDENTIFICATION AND USE

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| MATERIAL NAME/I.D.: KEMTREET CSL 202 |
| 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 |
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SECTION III - PHYSICAL DATA FOR MATERIAL

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| PHYSICAL STATE: LIQUID |
| ODOUR AND APPEARANCE: CLEAR YELLOW LIQUID; MILD ODOUR. |
| ODOUR THRESHOLD (PPM) SPECIFIC GRAVITY VAPOUR PRESSURE (MM) |
| NOT AVAILABLE 1.07 NOT AVAILABLE |
| VAPOUR DENSITY (AIR=1) EVAPORATION RATE SOLUBILITY IN WATER |
| NOT ESTABLISHED (WATER=1) 1.0 (20°C) COMPLETE |
| BOILING POINT (C) FREEZING POINT (C) % VOLATILE (BY WEIGHT) |
| 100 (ESTIMATED) -3 88 |
| pH (10% SOLUTION) DENSITY (G/ML) COEF.OF WATER/OIL DISTR |
| 8.5-9.5 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: 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, TRACE
| AMOUNTS OF SMOKE, SOOT, OXIDES OF CARBON.

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| 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.

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| 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-BREATHING OF HIGH CONCENTRATIONS OF MISTS OR VAPOURS MAY
|CAUSE IRRITATION OF RESPIRATORY TRACT AND LUNGS.
|INGESTION-MAY IRRITATE MOUTH, THROAT AND STOMACH. INGESTION OF
|LARGE 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 NITROSAMINES HAVE BEEN SHOWN TO CAUSE CANCER
|IN LABORATORY ANIMALS.
|REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY, EMBRYOTOXICITY
|-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 AT |
|LEAST 15 MINUTES. IF IRRITATION PERSIST, SEEK MEDICAL ASSISTANCE. |
|SKIN-REMOVE CONTAMINATED CLOTHING AND FLUSH AFFECTED AREA WITH |
|LARGE AMOUNTS OF SOAP AND WATER. IF IRRITATION PERSIST, SEEK MEDICAL |
|ASSISTANCE. LAUNDER 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

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|---------------------------------|----------|--------|---------------|
| 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

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|--------------|------------|--------|
| FLAMMABILITY | REACTIVITY | HEALTH |
| 0 | 1 | 1 |

SECTION XI - PREPARATION DATE OF MSDS

|PREPARED BY: TECHNICAL DEPARTMENT TELEPHONE # (905) 456-9444 |
|REVIEWS: OCTOBER 10, 2009 REPLACES: MARCH 29, 2006 |

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