



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: 520500

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KEMTREET CSP 205
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	60.0-100.0	NO DATA	7632-00-0	88 MG/KG

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: POWDER
ODOUR AND APPEARANCE: OFF WHITE COLOURED POWDER, LOW ODOUR
ODOUR THRESHOLD (PPM) SPECIFIC GRAVITY VAPOUR PRESSURE (MM)
NOT AVAILABLE 2.10 NOT AVAILABLE
VAPOUR DENSITY (AIR=1) EVAPORATION RATE SOLUBILITY IN WATER
1 NOT APPLICABLE (20°C) COMPLETE
BOILING POINT (C) FREEZING POINT (C) % VOLATILE (BY WEIGHT)
NOT AVAILABLE NOT AVAILABLE <5
pH (10% SOLUTION) DENSITY (G/ML) COEF.OF WATER/OIL DISTR
10-11 NOT AVAILABLE 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. SODIUM NITRITE MAY EXPLODE WHEN
| HEATED ABOVE 537(C) AND WILL ACCELERATE COMBUSTION OF ORGANICS OR
| COMBUSTIBLE MATERIALS.

| FLASH POINT (C) AND METHOD: NONE (TCC)

| HAZARDOUS COMBUSTION PRODUCTS: MAY EVOLVE NITROGEN OXIDES, SULFUR
| OXIDES, OXIDES OF SODIUM, CARBON DIOXIDE, CARBON MONOXIDE.

| 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 | |
| CAN EXPLODE UPON SEVERE IMPACT | 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: STRONG ACIDS, AMMONIUM COMPOUNDS, REDUCING AGENTS
| SUCH AS CYANIDES, THIOCYANATES AND THIOSULPHATES, COMBUSTIBLE
| MATERIALS.

| REACTIVITY AND UNDER WHAT CONDITIONS: SOLUTIONS CAN BE CORROSIVE TO
| ALUMINUM, LEAD AND ZINC.

| HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

| HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF NITROGEN AND SULPHUR.

| VIOLENT EXPLOSIONS MAY OCCUR IF MELTED WITH MAGNESIUM/ALUMINUM.

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. MAY CAUSE EYE BURNS.
|SKIN-PROLONGED CONTACT MAY CAUSE MILD TO MODERATE 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 | TOXIC

|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-NO DATA.

|MUTAGENICITY- NO DATA.

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SECTION VII - PREVENTIVE MEASURES

|PERSONAL PROTECTIVE EQUIPMENT:

| GLOVES: RUBBER OR VINYL
|RESPIRATORY: DUST RESPIRATOR IF DUSTY CONDITIONS PREVAIL AND 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: SWEEP OR SHOVEL INTO APPROPRIATE CONTAINER
|FOR RECLAIM OR DISPOSAL. WASH REMAINING RESIDUE WITH COPIOUS AMOUNTS
|OF WATER. KEEP CONTAMINATED WATER FROM ENTERING SEWERS AND
|WATERWAYS.

|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. 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

SHIPPING NAME	CLASS	UN NO.	PACKING GROUP
OXIDIZING SOLID, TOXIC, N.O.S. (SODIUM NITRITE)	5.1(6.1)	3087	III

|HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH EYES AND SKIN.
|HANDLE SUCH THAT DUST IS MINIMIZED. 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
1	1	2

SECTION XI - PREPARATION DATE OF MSDS

| PREPARED BY: TECHNICAL DEPARTMENT TELEPHONE # (905) 456-9444
| REVIEWED: MAY 20, 2009

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