



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: 783600

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KEMTREET CSL 836	
CHEMICAL NAME : NOT APPLICABLE	CHEMICAL FAMILY : MIXTURE
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: NOT APPLICABLE
SYNONYMS: NONE	
MATERIAL USE: CLOSED SYSTEM CLEANER	

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
ETHOXYLATED ALCOHOL	1.0-5.0	NO DATA	68002-97-1	3300 MG/KG
OXIRANE, POLYMER WITH HYDROPHOBIC ALKYL ALCOHOL	1.0-5.0	NO DATA	TRADE SECRET (REF. REGISTRY NO.4019)	NOT ESTABLISHED

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID		
ODOUR AND APPEARANCE: SLIGHTLY OPAQUE, ORANGE LIQUID; ORANGE ODOUR.		
ODOUR THRESHOLD (PPM) NOT AVAILABLE	SPECIFIC GRAVITY 1.018	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) NOT ESTABLISHED	FREEZING POINT (C) NOT ESTABLISHED	% VOLATILE (BY WEIGHT) <94
pH (10% SOLUTION) 9.5-10.5	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: CHEMICAL FOAM, CARBON DIOXIDE, WATER FOG 		
SPECIAL PROCEDURES: WEAR FULL PROTECTIVE GEAR INCLUDING SELF- CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER. 		
FLASH POINT (C) AND METHOD: <100 (TCC) 		
HAZARDOUS COMBUSTION PRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE, OXIDES OF NITROGEN. 		
UPPER EXPLOSION LIMIT NOT AVAILABLE	LOWER EXPLOSION LIMIT NOT AVAILABLE	AUTOIGNITION TEMP(C) NOT AVAILABLE
EXPLOSION DATA SENSITIVITY TO CHEMICAL IMPACT NOT AVAILABLE	RATE OF BURNING NOT APPLICABLE	EXPLOSIVE POWER 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: STRONG OXIDIZING AGENTS, STRONG INORGANIC ACIDS, HALOGENS, MATERIALS REACTIVE WITH HYDROXYL COMPOUNDS. 		
REACTIVITY AND UNDER WHAT CONDITIONS: YES MATERIAL CAN DECOMPOSE AT TEMPERATURES ABOVE 200 (C) HAZARDOUS POLYMERIZATION WILL NOT OCCUR. 		
HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION MAY EVOLVE NITROUS OXIDES, OXIDES OF CARBON. 		

SECTION VI - HEALTH HAZARD DATA

ROUTE OF ENTRY: 		
SKIN CONTACT: YES INHALATION: YES	SKIN ABSORPTION: YES INGESTION: YES	EYE CONTACT: YES



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EFFECTS OF ACUTE EXPOSURE TO MATERIAL:
EYES-CONTACT MAY CAUSE SEVERE IRRITATION, REDNESS, TEARING, POSSIBLE CORNEAL INFLAMMATION.
SKIN-CONTACT MAY CAUSE IRRITATION, REDDNESS, POSSIBLE SCALING.
INHALATION-EXCESSIVE INHALATION OF MISTS OR VAPOURS CAN CAUSE IRRITATION OF THE RESPIRATORY TRACT, NASAL DISCOMFORT AND DISCHARGE CHEST PAIN, COUGHING.
INGESTION-MAY CAUSE IRRITATION OF THE MOUTH AND THROAT, ABDOMINAL DISCOMFORT, NAUSEA AND VOMITING. ASPIRATION OF MATERIAL INTO LUNGS MAY CAUSE LUNG INJURY.

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:
PROLONGED OR REPEATED CONTACT WITH SKIN MAY CAUSE DERMATITIS.

LD 50 OF MATL.	LC 50 OF MATL.	EXPOSURE LIMIT(S)	IRRITANCY OF MATL
NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	SKIN AND EYE

SENSITIZATION OF MATERIAL	SYNERGISTIC MATERIALS
NOT AVAILABLE	NOT AVAILABLE

CARCINOGENICITY-NONE KNOWN.
REPRODUCTIVE EFFECTS-SODIUM NITRITE SHOWED EFFECTS ON FETUS OF ANIMALS AT MODERATE TO HIGH DOSAGES.
MUTAGENICITY- SODIUM NITRITE SHOWED MUTAGENIC EFFECTS ON HUMANS AND ANIMALS. (SOMATIC CELLS)

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): GENERAL VENTILATION SHOULD BE ADEQUATE.

LEAK AND SPILL PROCEDURE: STOP LEAKS AND CONTAIN SPILL. TRANSFER TO SUITABLE CONTAINER FOR REUSE OR DISPOSAL. ABSORB REMAINING MATERIAL ONTO INERT ABSORBANT AND SCOOP INTO DISPOSAL CONTAINER. FLUSH AREA 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 WATER FOR 15 MINUTES. IF PAIN OR IRRITATION PERSIST, SEEK MEDICAL ASSISTANCE. LAUNDRER CLOTHING BEFORE REUSE. INHALATION-MOVE VICTIM TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION IF SYMPTOM OCCUR OR PERSIST. INGESTION- IF SWALLOWED, DO NOT INDUCE VOMITING. GIVE 2 GLASSES OF WATER. NEVER GIVE LIQUIDS TO A PERSON WHO IS CONVULSING OR IS UNCONSCIOUS. GET 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, TOXIC, N.O.S. (SODIUM NITRITE)	5.1(6.1)	3099	III

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

STORAGE REQUIREMENTS: STORE IN A COOL, DRY WELL VENTILATED AREA AWAY FROM INCOMPATIBLE MATERIALS. DO NOT STORE IN CONTACT WITH SUNLIGHT. KEEP CONTAINER CLOSED WHEN NOT IN USE.

SPECIAL SHIPPING INFORMATION: OXIDIZER

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
REVIEWED: NOVEMBER 23, 2003

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