



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 D2B

MATERIAL REFERENCE NO: 110900

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: CITRO-D	
CHEMICAL NAME: NOT APPLICABLE	CHEMICAL FAMILY: BLENDED PRODUCT
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: NOT APPLICABLE
SYNONYMS: NONE	
MATERIAL USE: NON-BUTYL CLEANER DEGREASER DEODORANT	

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. % CONCENT.	TLV PPM	C.A.S. NUMBERS	LD 50 ORAL, RAT
SODIUM METASILICATE	5.0-10.0	NOT AVAILABLE	6834-92-0	NONE ESTABLISHED
BENZALKONIUM CHLORIDE	1.0-5.0	NOT AVAILABLE	8001-54-5	500 MG/KG

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID		
ODOUR AND APPEARANCE: SEMI-FLUORESCENT GREEN, CLEAR LIQUID, CHARACTERISITIC ODOUR.		
ODOUR THRESHOLD (PPM) NOT ESTABLISHED	SPECIFIC GRAVITY 1.063	VAPOUR PRESSURE (MM) NOT ESTABLISHED
VAPOUR DENSITY (AIR=1) NOT ESTABLISHED	EVAPORATION RATE SAME AS WATER	SOLUBILITY IN WATER (20øC) COMPLETE
BOILING POINT (C) 100	FREEZING POINT (C) 0 ESTIMATED	% VOLATILE (BY VOLUME) > 85
pH (10% SOLUTION) 12.9	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: AS APPROPRIATE FOR SURROUNDING MATERIALS. 		
SPECIAL PROCEDURES: NONE 		
FLASH POINT (C) AND METHOD: NONE 		
HAZARDOUS COMBUSTION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE, CHLORINATED COMPOUNDS. 		
UPPER EXPLOSION LIMIT NOT APPLICABLE	LOWER EXPLOSION LIMIT NOT APPLICABLE	AUTOIGNITION TEMP(C) NOT AVAILABLE
EXPLOSION DATA SENSITIVITY TO CHEMICAL IMPACT NOT AVAILABLE	RATE OF BURNING NOT APPLICABLE	EXPLOSIVE POWER NOT APPLICABLE
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: ACIDIC SUBSTANCES, SOAPS AND NONIONIC DETERGENT
REACTIVITY AND UNDER WHAT CONDITIONS: NOT ESTABLISHED
HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF CARBON AND CHLORINATED COMPOUNDS.

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-CAN CAUSE IRRITATION, REDNESS, TEARING.
SKIN-MAY CAUSE IRRITATION, REDNESS.
INHALATION-OF MIST OR VAPOURS MAY CAUSE IRRITATION OF RESPIRATORY TRACT.
INGESTION-MAY CAUSE IRRITATION OF MOUTH, THROAT AND LARNYX, NAUSEA, VOMITING, DIARRHEA.

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:
EYES-PROLONGED OR REPEATED EXPOSURES CAN CAUSE CORNEAL DAMAGE.
SKIN-DRYING AND IRRITATION OF SKIN.

LD 50 OF MATL. NOT AVAILABLE	LC 50 OF MATL. NOT AVAILABLE	EXPOSURE LIMIT(S) NOT AVAILABLE	IRRITANCY OF MATL MODERATE
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SENSITIZATION OF MATERIAL NOT AVAILABLE	SYNERGISTIC MATERIALS NOT AVAILABLE
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CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY:
NONE KNOWN

SECTION VII - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

GLOVES: RUBBER / VINYL
RESPIRATORY: NOT NORMALLY REQUIRED
EYE: SAFETY GOGGLES
FOOTWEAR: NO SPECIAL REQUIREMENTS
CLOTHING: NO SPECIAL REQUIREMENTS. COVER EXPOSED SKIN.
OTHER: EYE WASH AND SAFETY SHOWER
ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): GENERAL

LEAK AND SPILL PROCEDURE:
VENTILATE. SMALL SPILLS SHOULD BE FLUSHED WITH LARGE AMOUNTS OF WATER. LARGE SPILLS SHOULD BE COLLECTED FOR REUSE OR DISPOSAL.
ABSORB REMAINING MATERIAL ONTO INERT ABSORBENT AND PLACE IN DISPOSAL CONTAINER. FLUSH RESIDUAL WITH VOLUMES OF WATER.

WASTE DISPOSAL:
DISPOSE OF IN A LICENSED FACILITY IN ACCORDANCE WITH LOCAL, PROVINCIAL AND FEDERAL REGULATIONS.



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SECTION VIII - FIRST AID MEASURES

PROCEDURES:
EYES- FLUSH WITH WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS GET MEDICAL ATTENTION.
SKIN- THOROUGHLY FLUSH WITH WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS SEEK MEDICAL ATTENTION.
INHALATION- REMOVE TO FRESH AIR. GIVE OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL ASSISTANCE.
INGESTION- DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. DRINK MILK OR WATER. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS VICTIM. 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
NOT REGULATED			

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

STORAGE REQUIREMENTS:
STORE IN A COOL, DRY PLACE. KEEP CONTAINERS CLOSED WHEN NOT IN USE.

SPECIAL SHIPPING INFORMATION: NONE

SECTION X - HAZARD RATING INFORMATION

FLAMMABILITY	REACTIVITY	HEALTH
0	0	1

SECTION XI - PREPARATION DATE OF MSDS

PREPARED BY: TECHNICAL DEPARTMENT TELEPHONE # (905) 456-9444
REVIEWED: JULY 25, 2003

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