

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 A, D2B

MATERIAL REFERENCE NO: 112221

SECTION	Т	_	MATERIAL	TDENTIFIC	MOTTA	AND	USE

MATERIAL NAME/I.D.: CONTACT CLEANER III					
CHEMICAL NAME: NOT APPLICABLE	CHEMICAL FAMILY: PRESSURIZED BLEND				
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: NOT APPLICABLE				
SYNONYMS: NONE					
MATERIAL USE: HI-PURITY CONTACT	CLEANER				

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX.	TLV PPM	C.A.S. NUMBERS	LD 50 ORAL, RAT
1,1,1,2-TETRAFLUORO- ETHANE	40.0-60.0	1000	811-97-2	NO DATA
N-PROPYL BROMIDE PROPELLANT	10.0-30.0	NO DATA	106-94-5	4260 MG/KG
N-PROPANOL	1.0-5.0	200	71-23-8	1870 MG/KG

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: AEROSOL		
ODOUR AND APPEARANCE: C	LEAR, LIQUID; BROMIDE	TYPE ODOUR.
ODOUR THRESHOLD (PPM) NOT AVAILABLE	SPECIFIC GRAVITY (CONCENTRATE) 1.24	VAPOUR PRESSURE (MM) NOT AVAILABLE
VAPOUR DENSITY (AIR=1) > 1	EVAPORATION RATE NOT AVAILABLE	SOLUBILITY IN WATER (20øC) SLIGHT
BOILING POINT (C) INITIAL (FILL) ~69	FREEZING POINT (C) NOT AVAILABLE	% VOLATILE (BY WEIGHT) 100
pH (10% SOLUTION) NOT APPLICABLE	DENSITY (G/ML) NOT APPLICABLE	COEF.OF WATER/OIL DISTR NOT AVAILABLE



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SECTION IV	- LIKE	AND	EXPLOSION	HAZARD	OF.	MATERIAL	

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| FLAMMABILITY: NON-FLAMMABLE | IF YES, UNDER WHICH CONDITIONS:

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|MEANS OF EXTINCTION: FOAM, CO2, DRY CHEMICAL.

SPECIAL PROCEDURES: WEAR FULL PROTECTIVE GEAR INCLUDING SELF CONTAINED BREATHING APPARATUS. USE SHIELDING TO PROTECT FROM VENTING, BURSTING OR RUPTURING CONTAINERS. USE WATER FOG TO COOL FIRE EXPOSED CONTAINERS.

| FLASH POINT (C) AND METHOD: NONE

| HAZARDOUS COMBUSTION PRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE, | HALOGENATED COMPOUNDS.

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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 | PRESSURIZED CONTAINER | | NOT AVAILABLE | NOT APPLICABLE | KEEP TEMP. BELOW 49C |

|SENSITIVITY TO STATIC DISCHARGE: NOT APPLICABLE

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SECTION V - REACTIVITY DATA

|CHEMICAL STABILITY: STABLE |IF NO, UNDER WHICH CONDITIONS:

INCOMPATIBILITY TO OTHER SUBSTANCES: YES IF SO, WHICH ONES: STRONG OXIDIZING AGENTS.

REACTIVITY AND UNDER WHAT CONDITIONS: NONE KNOWN. HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

| HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION WILL GIVE | CARBON DIOXIDE, CARBON MONOXIDE, HYDROGEN CHLORIDE, HYDROGEN | FLUORIDE, CHLORINE.

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 MINOR IRRITATION.

SKIN-CONTACT MAY CAUSE IRRITATION.

INHALATION-MAY CAUSE IRRITATION OF NASAL AND RESPIRATORY PASSAGES. INGESTION-CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, DIARRHEA. ASPIRATION OF CHEMICAL INTO LUNGS CAN CAUSE CHEMICAL PNEUMONITIS.

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EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:

SKIN-FREOUENT OR PROLONGED CONTACT MAY CAUSE IRRITATION.

INHALATION-EXCESSIVE INHALATION MAY IRRITATE THE UPPER RESPIRATORY TRACT AND CAUSE NAUSEA, AND OTHER CENTRAL NERVOUS SYSTEM EFFECTS.

|LD 50 OF MATL. |LC 50 OF MATL. |EXPOSURE LIMIT(S)|IRRITANCY OF MATL| | NOT AVAILABLE | NOT AVAILABLE | LOW |

SENSITIZATION OF MATERIAL | SYNERGISTIC MATERIALS | NOT KNOWN | NONE KNOWN

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SECTION VII - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

GLOVES: CHEMICAL RESISTANT.
RESPIRATORY: NOT NORMALLY REQUIRED. FOR PROLONGED EXPOSURES OR IF

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TLV IS EXCEEDED USE APPROVED ORGANIC CANISTER OR SELF

CONTAINED BREATHING APPARATUS.

EYE: CHEMICAL GOGGLES AS REQUIRED.

FOOTWEAR: NO SPECIAL REQUIREMENTS. CLOTHING: NO SPECIAL REQUIREMENTS.

OTHER: EYE WASH AND SAFETY SHOWER

ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): LOCAL TO

MAINTAIN LEVELS BELOW TLV.

|LEAK AND SPILL PROCEDURE: ALLOW PROPELLANT TO EVAPORATE. MAINTAIN |ADEQUATE VENTILATION. ABSORB ONTO SUITABLE ABSORBANT AND SWEEP UP. |WASH FLOOR TO REMOVE RESIDUAL CHEMICAL.

WASTE DISPOSAL: DISPOSE OF IN ACCORDANCE WITH LOCAL, PROVINCIAL AND

FEDERAL REGULATIONS.



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SECTION VIII - FIRST AID MEASURES

PROCEDURES:

EYES-FLUSH WITH RUNNING WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ASSISTANCE.

SKIN-FLUSH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION OCCURS.

INHALATION-REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT GIVE OXYGEN. IF NOT BREATHING, ADMINISTER ARTIFICIAL RESPIRATION AND THEN GIVE OXYGEN. GET MEDICAL ASSISTANCE.

INGESTION-IF SWALLOWED, DO NOT INDUCE VOMITING. GET MEDICAL ASSISTANCE.

SOURCES USED: RAW MATERIAL SUPPLIER'S MATERIAL SAFETY DATA SHEETS

ADDITIONAL INFORMATION: NONE

SECTION IX - TDG SHIPPING INFORMATION

_____ | CLASS | UN NO. | PG | SHIPPING NAME

D.G. Safety Marks are in accordance with 49 CFR

______ HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH EYES AND SKIN. USE IN WELL-VENTILATED AREAS ONLY.

STORAGE REQUIREMENTS: STORE IN A COOL, DRY, WELL VENTILATED AREA AWAY FROM OXIDIZING AGENTS. DO NOT STORE WHERE TEMPERATURES EXCEED 49 (C).

SPECIAL SHIPPING INFORMATION: NON-HEATED

SECTION X - HMIS HAZARD RATING INFORMATION

______ FLAMMABILITY REACTIVITY HEALTH

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SECTION XI - PREPARATION DATE OF MSDS

| PREPARED BY: TECHNICAL DEPARTMENT TELEPHONE # (905) 456-9444 REVIEWED: JULY 26, 2003

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