



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:
 A, D1B, D2A, D2B

MATERIAL REFERENCE NO: 234321

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: LECTRASOL (AEROSOL)	
CHEMICAL NAME: NOT APPLICABLE	CHEMICAL FAMILY: PRESSURIZED BLEND
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: NOT APPLICABLE
SYNONYMS: NONE	
MATERIAL USE: SAFETY SOLVENT CLEANER	

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. % CONCENT.	TLV PPM	C.A.S. NUMBERS	LD 50 ORAL, RAT
TRICHLOROETHYLENE	60.0-100.0	10	79-01-6	4290 MG/KG
ISOPROPYL ALCOHOL	1.0-10.0	400	67-63-0	5045 MG/KG
CARBON DIOXIDE PROPELLANT	1.0-10.0	10,000	124-38-9	NOT AVAILABLE

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: AEROSOL		
ODOUR AND APPEARANCE: CLEAR, COLOURLESS LIQUID; MILD SWEET ODOUR.		
ODOUR THRESHOLD (PPM) NOT AVAILABLE	SPECIFIC GRAVITY CONCENTRATE 1.42	VAPOUR PRESSURE (MM) 90 PSIG AT 21 C
VAPOUR DENSITY (AIR=1) 4.5	EVAPORATION RATE NOT AVAILABLE	SOLUBILITY IN WATER (25°C) NEGLIGIBLE
BOILING POINT (C) (FILL) ~85.5	FREEZING POINT (C) NOT AVAILABLE	TOTAL VOC % 97
pH (10% SOLUTION) NOT APPLICABLE	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: FOAM, CO2, DRY CHEMICAL.		
SPECIAL PROCEDURES: WEAR FULL PROTECTIVE GEAR INCLUDING SELF-CONTAINED BREATHING APPARATUS. USE SHIELDING TO PROTECT FROM VENTING, RUPTURING OR BURSTING CONTAINERS. USE WATER FOG TO COOL FIRE EXPOSED CONTAINERS.		
FLASH POINT (C) AND METHOD: CONCENTRATE NONE TO BOILING FLAME EXTENTION-NON-FLAMMABLE SPRAY		
HAZARDOUS COMBUSTION PRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE, HYDROGEN CHLORIDE, PHOSGENE.		
UPPER EXPLOSION LIMIT	LOWER EXPLOSION LIMIT	AUTOIGNITION TEMP(C)
NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
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 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 BASES, AMINES, POWDERED METALS, ALKALI METALS.		
REACTIVITY AND UNDER WHAT CONDITIONS: NOT KNOWN		
HAZARDOUS POLYMERIZATION WILL NOT OCCUR.		
HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION WILL GIVE CARBON DIOXIDE, CARBON MONOXIDE, HYDROGEN CHLORIDE, PHOSGENE.		

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 MODERATE TO SEVERE IRRITATION, PAIN, REDNESS, TEARING, SWELLING OF CONJUNCTIVA.
SKIN-CONTACT MAY CAUSE IRRITATION. MAY AGGRAVATE EXISTING SKIN CONDITIONS.
INHALATION-PRIMARY CENTRAL NERVOUS SYSTEM DEPRESSANT, SYMPTOMS CAN INCLUDE DIZZINESS, DROWZINESS, INCOORDINATION, SLOWED REACTION TIME, SLURRED SPEECH, GIDDINESS.
INGESTION-CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING AND DIARRHEA. ASPIRATION OF CHEMICAL INTO THE LUNGS MAY CAUSE CHEMICAL PHEUMONITIS, AND PULMONARY EDEMA.

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:
SKIN: PROLONGED OR REPEATED CONTACT MAY CAUSE SKIN RASH (DERMATITIS)

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

SENSITIZATION OF MATERIAL	SYNERGISTIC MATERIALS
NONE KNOWN	NOT AVAILABLE

CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY:
TRICHLOROETHYLENE IS CLASSIFIED BY ACGIH AS A2-SUSPECTED HUMAN CARCINOGEN.

SECTION VII - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

GLOVES: CHEMICAL RESISTANT (VITON, PVA, ETHYL VINYL ACETATE)
RESPIRATORY: NIOSH APPROVED AIR PURIFYING RESPIRATOR FOR SHORT TERM USE. USE A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR FOR LONG TERM EXPOSURES.
EYE: CHEMICAL GOGGLES
FOOTWEAR: NO SPECIAL REQUIREMENTS.
CLOTHING: SITABLE WORKWEAR TO PREVENT CONTACT WITH SKIN.
OTHER: EYE WASH AND SAFETY SHOWER
ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): PROVIDE LOCAL, MECHANICAL EXHAUST TO MAINTAIN AIRBORNE CONCENTRATIONS WITHIN ACCEPTABLE LEVELS.

LEAK AND SPILL PROCEDURE: VENTILATE AREA. ALLOW PROPELLANT TO EVAPORATE. ABSORB ONTO SUITABLE ABSORBENT. SWEEP UP AND PLACE IN DISPOSAL CONTAINER. WASH FLOOR TO REMOVE RESIDUAL CHEMICAL.

WASTE DISPOSAL: DO NOT PUNCTURE OR INCINERATE CONTAINER. DISPOSE OF IN ACCORDANCE WITH FEDERAL, PROVINCIAL AND LOCAL REGULATIONS.



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SECTION VIII - FIRST AID MEASURES

PROCEDURES:
 EYES-FLUSH WITH RUNNING WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ASSISTANCE.
 SKIN-WASH THOROUGHLY WITH SOAP AND WATER GET MEDICAL ASSISTANCE IF IRRITATION OCCURS OR PERSISTS.
 INHALATION-REMOVE TO FRESH AIR. IF NOT BREATHING, ADMINISTER ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT GIVE OXYGEN AND GET IMMEDIATE MEDICAL ATTENTION.
 INGESTION-IF SWALLOWED, DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON. 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.	PG
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. WASH THOROUGHLY AFTER USE.

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

SPECIAL SHIPPING INFORMATION: NON-HEATED

SECTION X - HMIS HAZARD RATING INFORMATION

FLAMMABILITY	REACTIVITY	HEALTH
0	1	2

SECTION XI - PREPARATION DATE OF MSDS

PREPARED BY: TECHNICAL DEPARTMENT	TELEPHONE # (905) 456-9444
REVISED: JANUARY 21, 2009	REPLACES: JANUARY 12, 2006

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