



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: B3, D2B

MATERIAL REFERENCE NO: 224500

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KEMZOID	
CHEMICAL NAME: NOT APPLICABLE	CHEMICAL FAMILY: SOLVENT BLEND
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: NOT APPLICABLE
SYNONYMS: NONE	
MATERIAL USE: ODOUR CONTROL AGENT	

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. % CONCENT.	TLV PPM	C.A.S. NUMBERS	LD 50 ORAL, RAT
D'LIMONENE	10.0-30.0	NOT AVAILABLE	5989-27-5	4400 MG/KG
ORANGE OIL	10.0-30.0	NOT AVAILABLE	8008-57-9	>5000 MG/KG
MINERAL SPIRITS	30.0-60.0	100	64742-47-8	>5000 MG/KG

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID	
ODOUR AND APPEARANCE: CLEAR, ORANGE LIQUID; SWEET FRUITY ODOUR.	
ODOUR THRESHOLD (PPM) NOT AVAILABLE	SPECIFIC GRAVITY 0.810
VAPOUR PRESSURE (MM) NOT AVAILABLE	
VAPOUR DENSITY (AIR=1) NOT AVAILABLE	EVAPORATION RATE NOT AVAILABLE
SOLUBILITY IN WATER (20°C) INSOLUBLE	
BOILING POINT (C) MINIMUM 175	FREEZING POINT (C) NOT AVAILABLE
% VOLATILE (BY WEIGHT) NOT AVAILABLE	
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: COMBUSTIBLE			
IF YES, UNDER WHICH CONDITIONS: HIGH HEAT			
MEANS OF EXTINCTION: CARBON DIOXIDE, FOAM, DRY CHEMICAL, WATER FOG.			
SPECIAL PROCEDURES: WEAR FULL PROTECTIVE GEAR INCLUDING SELF			
CONTAINED BREATHING APPARATUS.			
FLASH POINT (C) AND METHOD: 49.6 (TCC)			
HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF CARBON AND NITROGEN,			
PARTIALLY OXIDIZED HYDROCARBONS, UNIDENTIFIED ORGANIC COMPOUNDS,			
ACRID SMOKE, IRRITATING FUMES.			
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			
NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	
SENSITIVITY TO STATIC DISCHARGE: NOT AVAILABLE			

SECTION V - REACTIVITY DATA

CHEMICAL STABILITY: NORMALLY STABLE			
IF NO, UNDER WHICH CONDITIONS: HIGH HEAT			
INCOMPATIBILITY TO OTHER SUBSTANCES: YES			
IF SO, WHICH ONES: STRONG OXIDIZING AGENTS			
REACTIVITY AND UNDER WHAT CONDITIONS: NO DATA			
HAZARDOUS POLYMERIZATION WILL NOT OCCUR.			
HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION WILL GIVE			
OXIDES OF CARBON AND NITROGEN, PARTIALLY OXIDIZED HYDROCARBONS,			
UNIDENTIFIED ORGANIC COMPOUNDS, ACRID SMOKE, IRRITATING FUMES.			

SECTION VI - HEALTH HAZARD DATA

ROUTE OF ENTRY:			
SKIN CONTACT: YES	SKIN ABSORPTION: NO	EYE CONTACT: YES	
INHALATION: NO	INGESTION: YES		



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EFFECTS OF ACUTE EXPOSURE TO MATERIAL:
EYES-CONTACT WITH LIQUID MAY CAUSE IRRITATION. HIGHER CONCENTRATIONS
OF VAPOURS MAY ALSO CAUSE IRRITATION.
SKIN-CONTACT WITH CONCENTRATE MAY CAUSE MODERATE IRRITATION.
INHALATION-BREATHING OF HIGH CONCENTRATIONS OF VAPOURS CAN BE
IRRITATING TO EYES AND RESPIRATORY TRACT. MAY CAUSE DIZZINESS,
ANESTHESIA, DROWZINESS AND OTHER CENTRAL NERVOUS SYTEM EFFECTS.
INGESTION-MAY BE HARMFUL IF SWALLOWED. ASPIRATION INTO LUNGS MAY
CAUSE SEVERE HEALTH EFFECTS (I.E. BRONCHOPNEUMONIA OR PULMONARY
EDEMA.

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:
SKIN-PROLONGED OR REPEATED EXPOSURES MAY CAUSE A SKIN RASH
(DERMATITIS).

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

SENSITIZATION OF MATERIAL	SYNERGISTIC MATERIALS
NOT AVAILABLE	NOT AVAILABLE

CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY:
NONE KNOWN

SECTION VII - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

GLOVES: VITON, NITRILE
RESPIRATORY: NONE FOR NORMAL USE.
EYE: SAFETY GOGGLES WHEN HANDLING QUANTITIES OF CONCENTRATE.
FOOTWEAR: NO SPECIAL REQUIREMENTS
CLOTHING: NO SPECIAL REQUIREMENTS
OTHER: EYE WASH AND SAFETY SHOWER
ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): NONE
NORMALLY REQUIRED. PROVIDE LOCAL EXHAUST VENTILATION OR MECHANICAL
VENTILATION IN CONFINED OR POORLY VENTILATED AREAS AS REQUIRED TO
MAINTAIN AIRBORNE CONCENTRATIONS WITHIN RECOMMENDED LIMITS.

LEAK AND SPILL PROCEDURE: WEAR RECOMMENDED PROTECTIVE EQUIPMENT.
PROVIDE ADEQUATE VENTILATION. ELIMINATE IGNITION SOURCES. CONTAIN
SPILL. TRANSFER MATERIAL TO SUITABLE CONTAINER FOR REUSE OR DISPOSAL
ABSORB REMAINING MATERIAL ONTO ABSORBANT AND TRANSFER TO CONTAINER
FOR DISPOSAL.

WASTE DISPOSAL: DISPOSE OF IN ACCORDANCE WITH ALL 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 WHILE HOLDING EYELIDS OPEN. IF IRRITATION OCCURS OR PERSISTS, GET MEDICAL ASSISTANCE.
SKIN-REMOVE CONTAMINATED CLOTHING AND WASH AFFECTED AREA THOROUGHLY WITH MILD SOAP AND WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.
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-DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON. ASPIRATION OF CHEMICAL INTO LUNGS CAN CAUSE CHEMICAL PNEUMONITIS. 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
FLAMMABLE LIQUIDS N.O.S.		1993	III
(TERPENE HYDROCARBONS)			

NOT REGULATED IN CONTAINERS LESS THAN 450 LITRES.

HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH SKIN AND EYES. WASH THOROUGHLY AFTER HANDLING. USE GOOD HYGIENE PRACTICES.

STORAGE REQUIREMENTS: STORE IN A COOL, DRY, WELL-VENTILATED AREA AWAY FROM IGNITION SOURCES AND INCOMPATIBLES. KEEP CONTAINER CLOSED WHEN NOT IN USE.

SPECIAL SHIPPING INFORMATION: NONE

SECTION X - HMIS HAZARD RATING INFORMATION

FLAMMABILITY	REACTIVITY	HEALTH
2	0	1

SECTION XI - PREPARATION DATE OF MSDS

PREPARED BY: TECHNICAL DEPARTMENT TELEPHONE # (905) 456-9444
REVISED: OCTOBER 4, 2009 REPLACES: FEBRUARY 13, 2006

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