



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, B5, D2B

MATERIAL REFERENCE NO: 229521

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KOOLIT (AEROSOL)
CHEMICAL NAME: NOT APPLICABLE CHEMICAL FAMILY: PRESSURIZED BLEND
CHEMICAL FORMULA: MIXTURE MOLECULAR WEIGHT: NOT APPLICABLE
SYNONYMS: NONE
MATERIAL USE: CUTTING AND TAPPING FLUID

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. % CONCENT.	TLV PPM	C.A.S. NUMBERS	LD 50 ORAL, RAT
ETHYL ALCOHOL	40.0-60.0	1000	64-17-5	7060 MG/KG
POLYALKYLENE GLYCOL	10.0-20.0	NOT AVAILABLE	9038-95-3	NOT AVAILABLE
LIQUIFIED PETROLEUM	20.0-40.0	1000	68476-85-7	NOT AVAILABLE
GAS				

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: AEROSOL
ODOUR AND APPEARANCE: CLEAR, LIQUID; ALCOHOL ODOUR.
ODOUR THRESHOLD (PPM) SPECIFIC GRAVITY VAPOUR PRESSURE (MM)
NOT AVAILABLE (CONCENTRATE) 0.862 52 PSIG AT 20 (C)
VAPOUR DENSITY (AIR=1) EVAPORATION RATE SOLUBILITY IN WATER
> 1 NOT AVAILABLE (20°C) COMPLETE
BOILING POINT (C) FREEZING POINT (C) % VOLATILE (BY WEIGHT)
NOT AVAILABLE NOT AVAILABLE NOT AVAILABLE
pH (10% SOLUTION) DENSITY (G/ML) COEF.OF WATER/OIL DISTR
NOT APPLICABLE NOT APPLICABLE NOT AVAILABLE



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SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

FLAMMABILITY: 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, BURSTING OR RUPTURING CONTAINERS. USE WATER FOG TO COOL			
FIRE EXPOSED CONTAINERS.			
FLASH POINT (C) AND METHOD: CONCENTRATE 22 T.O.C.			
EXTREMELY FLAMMABLE SPRAY			
HAZARDOUS COMBUSTION PRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE.			
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 AVAILABLE	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.			
REACTIVITY AND UNDER WHAT CONDITIONS: NONE KNOWN.			
HAZARDOUS POLYMERIZATION WILL NOT OCCUR.			
HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION WILL GIVE			
CARBON DIOXIDE, CARBON MONOXIDE.			

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-FREQUENT OR PROLONGED CONTACT MAY CAUSE IRRITATION.
INHALATION-MAY CAUSE IRRITATION OF NASAL AND RESPIRATORY PASSAGES.
EXCESSIVE INHALATION MAY CAUSE IRRITATION TO UPPER RESPIRATORY
TRACT, DIZZINESS, NAUSEA AND OTHER CENTRAL NERVOUS SYSTEM EFFECTS.
INGESTION-CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA AND DIARRHEA
ASPIRATION INTO LUNGS MAY CAUSE CHEMICAL PNEUMONITIS.

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:
NO DATA AVAILABLE.

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 KNOWN	NONE KNOWN

CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY:
NONE KNOWN

SECTION VII - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

GLOVES: CHEMICAL RESISTANT IF REQUIRED.
RESPIRATORY: NOT NORMALLY REQUIRED. FOR PROLONGED EXPOSURES OR IF
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. COVER EXPOSED SKIN.
OTHER: EYE WASH AND SAFETY SHOWER
ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): LOCAL TO
MAINTAIN LEVELS BELOW TLV.

LEAK AND SPILL PROCEDURE: REMOVE SOURCES OF IGNITION. ALLOW
PROPELLANT TO EVAPORATE. PROVIDE ADEQUATE VENTILATION. ABSORB ONTO
SUITABLE ABSORBENT AND SWEEP UP. WASH AREA TO PREVENT SLIPPING.

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



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SECTION VIII - FIRST AID MEASURES

PROCEDURES:
EYES-FLUSH WITH RUNNING WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS GET IMMEDIATE MEDICAL ATTENTION.
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 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. REMOVE ALL SOURCES OF IGNITION.
DO NOT SMOKE WHEN HANDLING PRODUCT.

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
(CONC.) 4	(CONC.) 0	(CONC.) 1

SECTION XI - PREPARATION DATE OF MSDS

PREPARED BY: TECHNICAL DEPARTMENT TELEPHONE # (905) 456-9444
REVIEWED: OCTOBER 4, 2009

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