



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: 107700

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: BIO-400	
CHEMICAL NAME: MIXTURE	CHEMICAL FAMILY: SOLVENT BLEND
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: NOT APPLICABLE
SYNONYMS: NONE	
MATERIAL USE: NATURAL PARTS SOLVENT CLEANER	

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. % CONCENT.	TLV PPM	C.A.S. NUMBERS	LD 50 ORAL, RAT
4-ISOPROPENYL-1- METHYLCYCLOHEXANE	60.0-100.0	NO DATA AVAILABLE	5989-27-5	4400 MG/KG
COCOAMIDE DIETHANOLAMIDE	1.0-5.0	NO DATA AVAILABLE	68603-42-9	12400 µL/KG
BALANCE NOT CONTROLLED				

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID		
ODOUR AND APPEARANCE: CLEAR, STRAW TO GOLDEN COLOUR; CITRUS ODOUR.		
ODOUR THRESHOLD (PPM) NOT AVAILABLE	SPECIFIC GRAVITY 0.86	VAPOUR PRESSURE (MM HG) NOT AVAILABLE
VAPOUR DENSITY (AIR=1) NOT AVAILABLE	EVAPORATION RATE (WATER=1) >1	SOLUBILITY IN WATER (20 ° C) MODERATE
BOILING POINT (C) 154 - 167	FREEZING POINT (C) NOT AVAILABLE	% VOLATILE (BY WEIGHT) >92
pH (1.0% 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:		
MEANS OF EXTINCTION: FOAM, DRY CHEMICAL, CARBON DIOXIDE.		
SPECIAL PROCEDURES: WEAR FULL PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATUS.		
FLASH POINT (C) AND METHOD: 46 (TCC)		
HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF CARBON AND NITROGEN, VARIOUS ORGANICS, SMOKE.		
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: STABLE		
IF NO, UNDER WHICH CONDITIONS:		
INCOMPATIBILITY TO OTHER SUBSTANCES: YES		
IF SO, WHICH ONES: STRONG OXIDIZING AGENTS.		
REACTIVITY AND UNDER WHAT CONDITIONS: 4- ISOPROPENYL-1-METHYLCYCLO-HEXANE REACTS VIOLENTLY WITH IODINE PENTAFLUORIDE IN TETRAFLUORO-ETHYLENE.		
HAZARDOUS POLYMERIZATION WILL NOT OCCUR.		
HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION YIELDS OXIDES OR CARBON, NITROGEN, VARIOUS ORGANICS.		

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: |
 |EYE CONTACT-CAUSES IRRITATION. VAPOURS MAY ALSO CAUSE IRRITATION. |
 |SKIN CONTACT-MAY CAUSE IRRITATION, SLIGHT REDNESS. |
 |INHALATION-EXCESSIVE OR PROLONGED BREATHING OF MIST OR VAPOUR CAN |
 |CAUSE NASAL AND RESPIRATORY IRRITATION. |
 |INGESTION-CAUSES GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, |
 |WEAKNESS. MAY BE HARMFUL. |
 |

|EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: |
 |SKIN: PROLONGED OR REPEATED EXPOSURE CAN CAUSE DRYING, DEFATTING |
 |AND DERMATITIS. |
 |

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

SENSITIZATION OF MATERIAL	SYNERGISTIC MATERIALS
NOT AVAILABLE	NOT AVAILABLE

|CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY: |
 |NONE. |
 |

SECTION VII - PREVENTIVE MEASURES

|PERSONAL PROTECTIVE EQUIPMENT: |

| GLOVES: RUBBER OR NEOPRENE |
 |RESPIRATORY: NONE FOR NORMAL USE. USE NIOSH APROVED ORGANIC VAPOUR |
 | RESPIRATOR IF EXPOSURE LIMITS ARE EXCEEDED. |
 | EYES: CHEMICAL GOGGLES IF SPLASHING IS LIKELY. |
 | FOOTWEAR: IMPERVIOUS IF HANDLING LARGE QUANTITIES OR HANDLING |
 | FREQUENTLY. |
 | CLOTHING: IMPERVIOUS IF HANDLING LARGE QUANTITIES OR HANDLING |
 | FREQUENTLY. |
 | OTHER: EYE WASH AND SAFETY SHOWER |
 |ENGINEERING CONTROLS: LOCAL VENTILATION FOR LARGE SCALE USE. |

|LEAK AND SPILL PROCEDURE: CONTAIN SPILL. ELIMINATE IGINITION SOURCES |
 |TRANSFER TO SUITABLE CONTAINER FOR RECLAIM OR DISPOSAL. ABSORB |
 |REMAINING MATERIAL ONTO INERT ABSORBANT AND SCOOP INTO DISPOSAL |
 |CONTAINER. |

|WASTE DISPOSAL: DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, PROVINCIAL |
 |AND FEDERAL REGULATIONS. |
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SECTION VIII - FIRST AID MEASURES

| PROCEDURES: |

| EYES-HOLD EYELIDS OPEN AND WASH THOROUGHLY WITH CLEAN WATER FOR AT |

| LEAST 15 MINUTES. GET MEDICAL HELP PROMPTLY. |

| SKIN-REMOVE CONTAMINATED CLOTHING AND WASH THOROUGHLY WITH SOAP AND |

| WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IF SYMPTOMS |

| PERSIST OR OCCUR. LAUNDRER CLOTHING BEFORE REUSE. |

| INHALATION-REMOVE PERSON TO FRESH AIR. GET MEDICAL ATTENTION IF |

| SYMPTOMS OCCUR OR PERSIST. |

| INGESTION-DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. GIVE ONE |

| GLASS OF WATER TO DRINK. DO NOT GIVE FLUIDS TO AN UNCONSCIOUS OR |

| CONVULSING PERSON. GET IMMEDIATE MEDICAL ASSISTANCE. |

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

| ADDITIONAL INFORMATION: NONE |

SECTION IX - TDG SHIPPING INFORMATION

SHIPPING NAME	CLASS	UN	PACKING GROUP
FLAMMABLE LIQUIDS, N.O.S. (TERPENE HYDROCARBONS)	3	1993	III
NOT REGULATED IN CONTAINERS LESS THAN 450 LITRES			

| HANDLING PROCEDURES AND EQUIPMENT: USE WITH ADEQUATE VENTILATION. |

| AVOID CONTACT WITH EYES AND SKIN. WASH THOROUGHLY AFTER HANDLING. |

| STORAGE REQUIREMENTS: STORE IN A COOL, DRY AREA AWAY FROM |

| INCOMPATIBLE MATERIALS. KEEP CONTAINER CLOSED WHEN NOT IN USE. |

| KEEP OUT OF SUN AND AWAY FROM DIRECT IGNITION SOURCES. |

| SPECIAL SHIPPING INFORMATION: NONE |

SECTION X - HMIS HAZARD RATING INFORMATION

FLAMMABILITY	REACTIVITY	HEALTH
2	0	2

SECTION XI - PREPARATION DATE OF MSDS

| PREPARED BY: TECHNICAL DEPARTMENT TELEPHONE # (905) 456-9444 |

| REVIEWED: OCTOBER 2, 2009 |

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