



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: D2B

MATERIAL REFERENCE NO: 501700

SECTION I - MATERIAL IDENTIFICATION AND USE

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|--|----------------------------------|
| MATERIAL NAME/I.D.: KEMTREET KOIL KLEEN | |
| CHEMICAL NAME : BLEND | CHEMICAL FAMILY : MIXTURE |
| CHEMICAL FORMULA: NOT APPLICABLE | MOLECULAR WEIGHT: NOT APPLICABLE |
| SYNONYMS: MIXED DETERGENTS - SURFACTANTS | |
| MATERIAL USE: Coil cleaning, degreasing & deodorizing. | |

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

| HAZARDOUS INGREDIENTS | APPROX. % CONCENT. | TLV PPM | C.A.S. N.A. U.N. NUMBERS | LD 50 ORAL, RAT |
|--------------------------|-----------------------|------------|-----------------------------|--------------------|
| DIPROPYLENE GLYCOL | 1.0-5.0 | NOT | 34590-94-8 | 5 GM/KG |
| METHYL ETHER | | AVAILABLE | | |
| SODIUM SILICATE | 1.0-5.0 | NOT | 6834-92-0 | 50 MG/KG |
| | | AVAILABLE | | |
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SECTION III - PHYSICAL DATA FOR MATERIAL

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| PHYSICAL STATE: LIQUID | | |
| ODOUR AND APPEARANCE: ORANGE LIQUID, TANGERINE ODOUR | | |
| ODOUR THRESHOLD (PPM) | SPECIFIC GRAVITY | VAPOUR PRESSURE (MM) |
| NOT AVAILABLE | 1.09 AT 16 (C) | NOT AVAILABLE |
| VAPOUR DENSITY (AIR=1) | EVAPORATION RATE | SOLUBILITY IN WATER |
| NOT APPLICABLE | NOT APPLICABLE | (20 ° C) SOLUBLE |
| BOILING POINT (C) | FREEZING POINT (C) | % VOLATILE (BY WEIGHT) |
| INITIAL @ 100 | 0 | > 80.0 % |
| pH (100% SOLUTION) | DENSITY (G/ML) | COEF.OF WATER/OIL DISTR |
| 11.5 | 1.090 | 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: WATER FOG, CO2, FOAM. | | |
| SPECIAL PROCEDURES: AS FOR PER SURROUNDING MATERIALS | | |
| FLASH POINT (C) AND METHOD: NON COMBUSTIBLE | | |
| HAZARDOUS COMBUSTION PRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE. | | |
| UPPER EXPLOSION LIMIT NONE | LOWER EXPLOSION LIMIT NONE | AUTOIGNITION TEMP(C) NOT AVAILABLE |
| EXPLOSION DATA SENSITIVITY TO CHEMICAL IMPACT NONE | RATE OF BURNING NOT AVAILABLE | EXPLOSIVE POWER NONE |
| SENSITIVITY TO STATIC DISCHARGE: NOT AVAILABLE | | |

SECTION V - REACTIVITY DATA

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| CHEMICAL STABILITY: STABLE |
| IF NO, UNDER WHICH CONDITIONS: |
| INCOMPATIBILITY TO OTHER SUBSTANCES: YES |
| IF SO, WHICH ONES: STRONG OXIDIZERS & ACIDIC PRODUCTS |
| REACTIVITY AND UNDER WHAT CONDITIONS: AS FOR INCOMPATIBLE SUBSTANCES. |
| HAZARDOUS DECOMPOSITION PRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE, |

SECTION VI - HEALTH HAZARD DATA

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|-------------------|----------------------|------------------|
| 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-MAY CAUSE IRRITATION.
SKIN-MAY CAUSE IRRITATION.
INGESTION-MAY CAUSE NAUSEA, VOMITING, IRRITATION OF GASTROINTESTINAL TRACT.

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:
MAY CAUSE DRYING OF SKIN.

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

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| SENSITIZATION OF MATERIAL NONE | SYNERGISTIC MATERIALS NOT AVAILABLE |
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CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY:
NONE KNOWN

SECTION VII - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

GLOVES: BUTYL RUBBER, NEOPRENE, POLYETHYLENE
RESPIRATORY: VAPOUR MASK IF MISTING OCCURS
EYE: FACE SHIELD OR GLASSES
FOOTWEAR: NO SPECIAL REQUIREMENTS
CLOTHING: NO SPECIAL REQUIREMENTS
OTHER: EYE WASH AND SAFETY SHOWER.
ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): USE WITH ADEQUATE VENTILATION.

LEAK AND SPILL PROCEDURE: CONTAIN SPILL. TRANSFER TO SUITABLE CONTAINER FOR RECLAIM OR DISPOSAL. ABSORB REMAINING RESIDUE ONTO INERT ABSORBENT AND PLACE IN DISPOSAL CONTAINER. FLUSH FLOOR WITH LARGE VOLUME OF WATER. RESIDUE MAY RESULT IN SLIPPERY SURFACE.

WASTE DISPOSAL: DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, PROVINCIAL AND FEDERAL REGULATIONS.



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SECTION VIII - FIRST AID MEASURES

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| PROCEDURES: EYES - FLUSH WITH RUNNING WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION. SKIN - WASH THOROUGHLY WITH SOAP AND WATER. REMOVE AND LAUNDER CONTAMINATED CLOTHING. CALL A PHYSICIAN IF IRRITATION PERSISTS INGESTION - DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. DRINK MILK OR WATER. GET MEDICAL ASSISTANCE. |
| SOURCES USED: RAW MATERIAL SUPPLIER'S MATERIAL SAFETY DATA SHEETS |
| ADDITIONAL INFORMATION: NONE |

SECTION IX - TDG SHIPPING INFORMATION

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|--|-------|--------|---------------|
| SHIPPING NAME NOT REGULATED | CLASS | UN NO. | PACKING GROUP |
| HANDLING PROCEDURES AND EQUIPMENT: WASH THOROUGHLY AFTER HANDLING. DO NOT GET IN EYES OR ON CLOTHING. | | | |
| STORAGE REQUIREMENTS: KEEP FROM FREEZING. KEEP CONTAINER CLOSED WHEN NOT IN USE. STORE AWAY FROM INCOMPATIBLE MATERIALS. | | | |
| SPECIAL SHIPPING INFORMATION: NONE | | | |

SECTION X - H.M.I.S. HAZARD RATING INFORMATION

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| FLAMMABILITY 0 | REACTIVITY 0 | HEALTH 1 |
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SECTION XI - PREPARATION DATE OF MSDS

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| PREPARED BY: TECHNICAL DEPARTMENT | TELEPHONE # (905) 456-9444 |
| REVIEWED: DECEMBER 14, 2002 | |

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