



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: D2A, E

MATERIAL REFERENCE NO: 700900

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KEMTREET SOOT SWEEP	
CHEMICAL NAME: NOT APPLICABLE	CHEMICAL FAMILY: NOT APPLICABLE
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: NOT APPLICABLE
SYNONYMS: NONE	
MATERIAL USE: LIQUID SOOT REMOVAL CATALYST	

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS	APPROX.	TLV	C.A.S.	LD 50
INGREDIENTS	% CONCENT.	PPM	NUMBERS	ORAL, RAT
SODIUM HYDROXIDE	1.0-5.0	2 MG/M3	1310-73-2	140 MG/KG
SODIUM DICHROMATE	1.0-5.0	0.5 MG/M3	10588-01-9	NOT
				AVAILABLE

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID			
ODOUR AND APPEARANCE: CLEAR YELLOW; NO ODOUR.			
ODOUR THRESHOLD (PPM)	SPECIFIC GRAVITY	VAPOUR PRESSURE (MM)	
NOT AVAILABLE	1.188	NOT AVAILABLE	
VAPOUR DENSITY (AIR=1)	EVAPORATION RATE	SOLUBILITY IN WATER	
>1	(WATER = 1) <1	(20øC) COMPLETE	
BOILING POINT (C)	FREEZING POINT (C)	% VOLATILE (BY WEIGHT)	
~100	NOT AVAILABLE	75	
pH (100% SOLUTION)	DENSITY (G/ML)	COEF.OF WATER/OIL DISTR	
9.5-12.0	NOT APPLICABLE	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: CHEMICAL FOAM, CARBON DIOXIDE, WATER FOG			
SPECIAL PROCEDURES: WEAR FULL PROTECTIVE GEAR INCLUDING SELF-			
CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH			
WATER.			
FLASH POINT (C) AND METHOD: MINIMUM 100 (TCC)			
HAZARDOUS COMBUSTION PRODUCTS: TEMPERATURES IN EXCESS OF 800(C) WILL			
PRODUCE TOXIC CHLORIDE FUMES AND SODIUM OXIDE.			
UPPER EXPLOSION LIMIT	LOWER EXPLOSION LIMIT	AUTOIGNITION TEMP(C)	
NOT APPLICABLE	NOT APPLICABLE	NOT AVAILABLE	
EXPLOSION DATA SENSITIVITY	RATE OF BURNING	EXPLOSIVE POWER	
TO CHEMICAL IMPACT			
NOT AVAILABLE	NOT APPLICABLE	NOT AVAILABLE	
SENSITIVITY TO STATIC DISCHARGE: NOT AVAILABLE			

SECTION V - REACTIVITY DATA

CHEMICAL STABILITY: STABLE			
IF NO, UNDER WHICH CONDITIONS:			
HAZARDOUS POLYMERIZATION WILL NOT OCCUR.			
INCOMPATIBILITY TO OTHER SUBSTANCES: YES			
IF SO, WHICH ONES: AVOID CONTACT WITH STRONG OXIDIZING MATERIALS,			
LITHIUM, BROMINE TRIFLUORIDE.			
REACTIVITY AND UNDER WHAT CONDITIONS: NO DATA AVAILABLE.			
HAZARDOUS DECOMPOSITION PRODUCTS: NO DATA			

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 IRRITATION, PAIN, BURNS.
SKIN-CONTACT MAY CAUSE ITCHING OR TINGLING, INFLAMMATION.
INHALATION-MAY CAUSE IRRITATION OF RESPIRATORY SYSTEM. EXCESSIVE
INHALATION OF HIGH CONCENTRATIONS OF MIST OR VAPOUR MAY CAUSE NASAL
AND RESPIRATORY DAMAGE.
INGESTION-MAY CAUSE IRRITATION AND BURNING SENSATION OF LIPS, MOUTH
AND THROAT, PAIN IN SWALLOWING, GASTRO-INTESTINAL IRRITATION,
ABUNDANT SALIVATION, STOMACH CRAMPS, NAUSEA AND VOMITING.
SWALLOWING LARGE QUANTITIES OF DICHROMATES CAN CAUSE LIVER AND
KIDNEY DAMAGE.

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:
EYES-CONTACT MAY CAUSE IRREPARABLE DAMAGE OF MUCOUS MEMBRANES,
ULCERATION OF EYES, LOSS OF SIGHT.
SKIN-EXCESSIVE OR REPEATED CONTACT MAY CAUSE CHROME SORES. MAY CAUSE
ALLERGIC SKIN REACTION. MAY CAUSE DERMATITIS.

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

SENSITIZATION OF MATERIAL	SYNERGISTIC MATERIALS
NOT AVAILABLE	NOT AVAILABLE

CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY:
CONTAINS TRACE AMOUNT OF CHROMIUM VI WHICH CAUSES CARCINOGENIC
EFFECTS IN HUMANS AND ANIMALS. CHROMIUM VI ALSO CAUSES TERATOGENIC
EFFECTS IN ANIMALS.

SECTION VII - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:
GLOVES: RUBBER OR VINYL
RESPIRATORY: WORN BY PERSONS SENSITIVE TO FUMES
EYE: FACE SHIELD OR SAFETY GOGGLES
FOOTWEAR: NO SPECIAL REQUIREMENTS
CLOTHING: NO SPECIAL REQUIREMENTS.
OTHER: EYE WASH AND SAFETY SHOWER
ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): LOCAL
AS NEEDED TO CONTROL FUMES.

LEAK AND SPILL PROCEDURE: WEAR APPROPRIATE PROTECTIVE EQUIPMENT.
STOP LEAKS AND CONTAIN SPILL. TRANSFER TO SUITABLE CONTAINER FOR
REUSE OR DISPOSAL. NEUTRALIZE REMAINING MATERIAL WITH LIME SLURRY,
LIMESTONE OR SODA ASH AND ABSORB ONTO INERT ABSORBENT. SCOOP INTO
DISPOSAL CONTAINER.

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



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SECTION VIII - FIRST AID MEASURES

| PROCEDURES: EYES-IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR AT |
| LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. |
| SKIN-REMOVE CONTAMINATED CLOTHING AND FLUSH AFFECTED AREA WITH |
| WATER FOR 15 MINUTES. IF PAIN OR IRRITATION PERSIST, SEEK MEDICAL |
| ASSISTANCE. LAUNDRY CLOTHING BEFORE REUSE. |
| INHALATION-MOVE VICTIM TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE |
| OXYGEN. IF NOT BREATHING, ADMINISTER ARTIFICIAL RESPIRATION AND THEN |
| GIVE OXYGEN. GET MEDICAL ATTENTION. |
| INGESTION-DO NOT INDUCE VOMITING. SLOWLY GIVE 1-2 GLASSES OF WATER |
| OR MILK. 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
TOXIC LIQUID, INORGANIC, N.O.S.	6.1	3287	III
(SODIUM BICHROMATE)			

| HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH EYES, SKIN AND |
| CLOTHING. WASH THOROUGHLY AFTER HANDLING. |

| STORAGE REQUIREMENTS: STORE IN A COOL, DRY WELL VENTILATED AREA IN |
| ORIGINAL CONTAINER PROPERLY SEALED. |

| SPECIAL SHIPPING INFORMATION: HEATED |

SECTION X - HMIS HAZARD RATING INFORMATION

FLAMMABILITY	REACTIVITY	HEALTH
0	0	2

SECTION XI - PREPARATION DATE OF MSDS

| PREPARED BY: TECHNICAL DEPARTMENT TELEPHONE # (905) 456-9444 |
| REVIEWED: OCTOBER 10, 2009 |

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