



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: 279100

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: STEAM-ALL	
CHEMICAL NAME: NOT APPLICABLE	CHEMICAL FAMILY: ALKALINE BLEND
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: NOT APPLICABLE
SYNONYMS: NONE	
MATERIAL USE: STEAM CLEANER	

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. CONCENT.	TLV PPM	C.A.S. NUMBERS	LD 50 RAT, ORAL
COCONUT DIETHANOLAMIDE	1.0-5.0	NO DATA	68603-42-9	12400 µL/KG
ALCOHOL ETHOXYLATE	5.0-10.0	NO DATA	68131-39-5	2000 MG/KG
DIETHANOLAMIDE FATTY ACID	1.0-5.0	NO DATA	NOT AVAIL	NO DATA
ALKYL BENZENE SULPHONIC ACID	1.0-5.0	NO DATA	68584-22-5	NO DATA
TRIETHANOLAMINE	1.0-5.0	3	102-71-6	4190MG/KG

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID			
ODOUR AND APPEARANCE: CLEAR VIOLET LIQUID, CITRUS ODOUR			
ODOUR THRESHOLD (PPM)	SPECIFIC GRAVITY	VAPOUR PRESSURE (MM)	
NOT ESTABLISHED	1.015	NOT AVAILABLE	
VAPOUR DENSITY (AIR=1)	EVAPORATION RATE	SOLUBILITY IN WATER	
NOT AVAILABLE	(WATER=1) > 1	(20 ø C) COMPLETE	
BOILING POINT (C)	FREEZING POINT (C)	% VOLATILE (BY WEIGHT)	
~100	NOT AVAILABLE	80	
pH (10% SOLUTION)	DENSITY (G/ML)	COEF.OF WATER/OIL DISTR	
9.0-9.5	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: WATER FOG, CHEMICAL FOAM, CARBON DIOXIDE			
SPECIAL PROCEDURES: WEAR FULL PROTECTIVE EQUIPMENT INCLUDING SELF-			
CONTAINED BREATHING APPARATUS.			
FLASH POINT (C) AND METHOD: NONE (TCC)			
HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF CARBON, NITROGEN AND			
SULPHUR, HYDROGEN SULPHIDE, ACRID SMOKE AND FUMES.			
UPPER EXPLOSION LIMIT LOWER EXPLOSION LIMIT AUTOIGNITION TEMP (C)			
NOT APPLICABLE NOT APPLICABLE NOT APPLICABLE			
EXPLOSION DATA SENSITIVITY RATE OF BURNING EXPLOSIVE POWER			
TO CHEMICAL IMPACT			
NOT AVAILABLE NOT APPLICABLE NOT APPLICABLE			
SENSITIVITY TO STATIC DISCHARGE: NOT AVAILABLE			

SECTION V - REACTIVITY DATA

CHEMICAL STABILITY: YES			
IF NO, UNDER WHICH CONDITIONS:			
HAZARDOUS POLYMERIZATION WILL NOT OCCUR.			
INCOMPATIBILITY TO OTHER SUBSTANCES: YES			
IF SO, WHICH ONES: STRONG ACIDS, OXIDIZING AGENTS, ALDEHYDES,			
KETONES, ANHYDRIDES.			
REACTIVITY AND UNDER WHAT CONDITIONS: NO DATA			
HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION CAN PRODUCE			
OXIDES OF CARBON, NITROGEN AND SULPHUR, HYDROGEN SULPHIDE, ACRID			
SMOKE AND FUMES.			

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 MODERATE TO SEVERE IRRITATION, TEARING. |
|SKIN-CONTACT MAY CAUSE IRRITATION.ITCHING OR TINGLING SENSATION. |
|INHALATION-PROLONGED INHALATION OF MIST MAY CAUSE IRRITATION OF EYES |
|NOSE AND THROAT. |
|INGESTION-MAY CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING |
|AND DIARRHEA. |

|EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: |
|EYES-EXCESSIVE CONTACT MAY CAUSE CORNEAL INJURY. |
|SKIN-PROLONGED OR REPEATED CONTACT MAY CAUSE 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: RUBBER OR VINYL WHEN HANDLING CONCENTRATE |
|RESPIRATORY: NOT NORMALLY REQUIRED |
| EYE: FACE SHIELD OR SAFETY GOGGLES IF SPLASHING IS LIKELY |
| FOOTWEAR: NO SPECIAL REQUIREMENTS |
| CLOTHING: NO SPECIAL REQUIREMENTS |
| OTHER: EYE WASH AND SAFETY SHOWER |
|ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): PROVIDE |
|MECHANICAL OR LOCAL VENTILATION IN CONFINED AREAS OR IF TLV IS |
|EXCEEDED. |

|LEAK AND SPILL PROCEDURE: CONTAIN SPILL. TRANSFER TO SUITABLE |
|CONTAINER FOR REUSE OR DISPOSAL. ABSORB REMAINING MATERIAL ONTO |
|INERT ABSORBANT AND SCOOP INTO DISPOSAL CONTAINER. FLUSH RESIDUAL |
|WITH VOLUMES OF WATER. |

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



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SECTION VIII - FIRST AID MEASURES

PROCEDURES:
EYES-IMMEDIATELY FLUSH WITH RUNNING WATER FOR AT LEAST 15 MINUTES
WHILE HOLDING EYELIDS OPEN. IF PAIN OR IRRITATION PERSIST, SEEK
MEDICAL ATTENTION.
SKIN-FLUSH AFFECTED AREA WITH RUNNING WATER FOR 15 MINUTES WHILE
REMOVING CONTAMINATED CLOTHING. IF PAIN OR IRRITATION PERSISTS, SEEK
MEDICAL AID. REMOVE AND WASH CONTAMINATED CLOTHING.
INHALATION-MOVE VICTIM TO FRESH AIR. IF BREATHING IS DIFFICULT GIVE
OXYGEN. IF NOT BREATHING, ADMINISTER ARTIFICIAL RESPIRATION AND GIVE
OXYGEN. GET MEDICAL ATTENTION.
INGESTION-IF SWALLOWED DO NOT INDUCE VOMITING. GIVE COLD WATER OR
ICE TO RINSE MOUTH. GIVE WATER, VINEGAR AND WATER OR FRUIT JUICE. IF
VOMITING OCCURS, GIVE FLUIDS AGAIN. GET 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
NOT REGULATED			

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

STORAGE REQUIREMENTS: STORE IN A COOL, DRY AREA. KEEP CONTAINER
CLOSED WHEN NOT IN USE. KEEP FROM FREEZING.

SPECIAL SHIPPING INFORMATION: HEATED

SECTION X - HMIS HAZARD RATING INFORMATION

FLAMMABILITY	REACTIVITY	HEALTH
0	0	1

SECTION XI - PREPARATION DATE OF MSDS

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

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