



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, E

MATERIAL REFERENCE NO: 107300

SECTION I - MATERIAL IDENTIFICATION AND USE

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

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. % CONCENT.	TLV MG/M3	C.A.S. NUMBERS	LD 50 ACUTE DERMAL
SODIUM HYDROXIDE	10.0-30.0	2	1310-73-2	500 MG/KG (LDLo RABBIT)

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID		
ODOUR AND APPEARANCE: OPAQUE, WHITE LIQUID; SLIGHT ODOUR.		
ODOUR THRESHOLD (PPM) NOT AVAILABLE	SPECIFIC GRAVITY 1.20	VAPOUR PRESSURE (MM) NOT AVAILABLE
VAPOUR DENSITY (AIR=1) NOT AVAILABLE	EVAPORATION RATE (WATER=1) <1	SOLUBILITY IN WATER (20 ø C) SOLUBLE
BOILING POINT (C) NOT AVAILABLE	FREEZING POINT (C) NOT AVAILABLE	% VOLATILE (BY WEIGHT) 80
pH 1.0 % SOLUTION 12.0-13.0	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: NON-FLAMMABLE |
IF YES, UNDER WHICH CONDITIONS:
MEANS OF EXTINCTION: AS APPROPRIATE FOR SURROUNDING MATERIALS

| SPECIAL PROCEDURES: WEAR FULL PROTECTIVE EQUIPMENT INCLUDING SELF- |
| CONTAINED BREATHING APPARATUS. RESIDUAL MATERIAL WILL RESULT IN |
SLIPPERY SURFACES.
FLASH POINT (C) AND METHOD: NONE

| HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF CARBON, SODIUM |
UPPER EXPLOSION LIMIT
NOT APPLICABLE

EXPLOSION DATA SENSITIVITY	RATE OF BURNING	EXPLOSIVE POWER
TO CHEMICAL IMPACT		
NOT AVAILABLE	NOT APPLICABLE	NOT AVAILABLE

SENSITIVITY TO STATIC DISCHARGE: NOT APPLICABLE

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: ACIDS, FLAMMABLE LIQUIDS, ORGANIC HALOGEN
COMPOUNDS, REACTIVE METALS, NITROMETHANE AND OTHER SIMILAR NITRO
COMPOUNDS.

| REACTIVITY AND UNDER WHAT CONDITIONS: CONTACT WITH ACIDS, FLAMMABLE |
| LIQUIDS AND ORGANIC HALOGEN COMPOUNDS MAY CAUSE FIRE AND EXPLOSIONS. |
| CONTACT WITH METALS SUCH AS ALUMINUM, TIN AND ZINC CAUSES FORMATION |
| OF FLAMMABLE HYDROGEN GAS. CONTACT WITH NITROMETHANE AND OTHER |
| SIMILAR NITRO COMPOUNDS CAUSES FORMATION OF SHOCK-SENSITIVE SALTS. |
| ALSO REACTS WITH BRONZE AND BRASS. GENERATES HEAT WHEN ADDED TO |
WATER.
HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF CARBON, CAUSTIC FUMES

SECTION VI - HEALTH HAZARD DATA

ROUTE OF ENTRY:
SKIN CONTACT: YES
INHALATION: YES



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|EFFECTS OF ACUTE EXPOSURE TO MATERIAL: |
|EYES-EXTREMELY CORROSIVE, CAUSES CORNEAL SCARRING AND CLOUDING. |
|GLAUCOMA, CATARACTS AND PERMANENT BLINDNESS MAY OCCUR. DAMAGE MAY |
|BE DELAYED AND NOT INITIALLY APPARENT. |
|SKIN-CONTACT CAN CAUSE DEEP AND SEVERE SKIN BURNS, ULCERATION AND |
|SCARRING. PAINFUL TISSUE DAMAGE MAY RESULT AND THE SENSATION OF |
|PAIN MAY BE DELAYED. |
|INHALATION-MIST MAY CAUSE SEVERE IRRITATION OF NOSE, THROAT AND |
|LUNGS. |
|INGESTION-MAY CAUSE PAIN, VOMITING AND SEVERE BURNS OF MOUTH, THROAT |
AND EXTENSIVE DAMAGE OR PERFORATION OF THE ESOPHAGUS. MAY BE FATAL.

|EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: |
|NO DATA |

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

|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, NITRILE OR PVC |
|RESPIRATORY: NONE FOR NORMAL USE. |
| EYE: CHEMICAL GOGGLES OR FACE SHIELD |
| FOOTWEAR: IMPERVIOUS. |
| CLOTHING: CHEMICAL RESISTANT. |
| OTHER: EYE WASH AND SAFETY SHOWER |
|ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): GOOD |
GENERAL AREA VENTILATION.

|LEAK AND SPILL PROCEDURE: STOP AND CONTAIN LEAK OR SPILL. VENTILATE |
|AREA. PROTECTIVE EQUIPMENT MUST BE WORN. DYKE WITH INERT MATERIAL |
|(SAND, EARTH ETC.). DO NOT ALLOW ENTRY INTO WATERWAYS. TRANSFER TO |
|SUITABLE CONTAINER FOR REUSE OR DISPOSAL. ABSORB REMAINING MATERIAL |
|ONTO INERT ABSORBENT AND SCOOP INTO DISPOSAL CONTAINER. CAREFULLY |
|NEUTRALIZE RESIDUE WITH DILUTE HYDROCHLORIC ACID AND FLUSH WITH |
VOLUMES OF WATER. KEEP OUT OF WATERWAYS.

|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 20 MINUTES |

| WHILE HOLDING EYELIDS OPEN. OBTAIN IMMEDIATE MEDICAL ATTENTION. |

| SKIN-REMOVE CONTAMINATED CLOTHING. FLUSH AFFECTED AREA WITH RUNNING |

| WATER FOR AT LEAST 20 MINUTES. OBTAIN MEDICAL ATTENTION IMMEDIATELY. |

| INHALATION-REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT GIVE |

| OXYGEN. IF NOT BREATHING ADMINISTER ARTIFICIAL RESPIRATION AND THEN |

| GIVE OXYGEN. OBTAIN MEDICAL ATTENTION. |

| INGESTION-UNLESS UNCONSCIOUS OR CONVULSING GIVE 1-2 GLASSES OF MILK |

| OR WATER TO DILUTE. DO NOT INDUCE VOMITING. OBTAIN MEDICAL ATTENTION |

| IMMEDIATELY. |

| EMERGENCY MEDICAL CARE-EYE BURNS OFTEN GO THROUGH THREE STAGES-AN |

| ACUTE STAGE WHEN EARLY DAMAGE IS EXPERIENCED, A REPARABLE STAGE WHEN |

| EYE BEGINS TO HEAL AND A RELAPSE STAGE. FOLLOW UP CARE IS ESSENTIAL. |

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

| ADDITIONAL INFORMATION: NONE |

SECTION IX - TDG SHIPPING INFORMATION

SHIPPING NAME	CLASS	UN NO.	PG
CORROSIVE LIQUIDS, N.O.S. (SODIUM HYDROXIDE)	8	1760	II

| HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH EYES, SKIN AND |

| CLOTHING. WASH THOROUGHLY AFTER HANDLING. SOLUTIONS ARE VERY |

| SLIPPERY ON FLOORS. |

| STORAGE REQUIREMENTS: STORE BETWEEN 15-50(C). KEEP CONTAINER CLOSED |

| WHEN NOT IN USE. |

| SPECIAL SHIPPING INFORMATION: SHIP HEATED |

SECTION X - HMIS HAZARD RATING INFORMATION

FLAMMABILITY	REACTIVITY	HEALTH
0	2	3

SECTION XI - PREPARATION DATE OF MSDS

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

| REVIEWED: JUNE 29, 2009 |

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