



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 C, D1B, E, F

MATERIAL REFERENCE NO: 101800

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: ALKACHLOR H.D.	
CHEMICAL NAME: NOT APPLICABLE	CHEMICAL FAMILY: ALKALINE BLEND
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: NOT APPLICABLE
SYNONYMS: NONE	
MATERIAL USE: ALKALINE CLEANER DETERGENT	

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. % CONCEN.	TLV PPM	C.A.S. NUMBERS	LD 50 ORAL, RAT
POTASSIUM HYDROXIDE	5.0-15.0	2 MG/M3	1310-58-3	365 MG/KG
SODIUM HYPOCHLORITE	1.0-5.0	1	7681-52-9	5800 MG/KG
SODIUM SILICATE	5.0-15.0	NO DATA	6834-92-0	622 MG/KG

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID		
ODOUR AND APPEARANCE: PALE YELLOW, CLEAR LIQUID; CHLORINE ODOUR.		
ODOUR THRESHOLD (PPM) NOT ESTABLISHED	SPECIFIC GRAVITY 1.2	VAPOUR PRESSURE (MM) NOT ESTABLISHED
VAPOUR DENSITY (AIR=1) NOT ESTABLISHED	EVAPORATION RATE (WATER=1) < 1	SOLUBILITY IN WATER (20°C) COMPLETE
BOILING POINT (C) > 100	FREEZING POINT (C) > 100	% VOLATILE (BY VOLUME) > 70
pH (10.0% SOLUTION) >13	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 FIRE		
SPECIAL PROCEDURES: WEAR FULL PROTECTIVE EQUIPMENT, INCLUDING SELF-CONTAINED BREATHING APPARATUS.		
FLASH POINT (C) AND METHOD: NON-COMBUSTIBLE		
HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF CARBON, PHOSPHOROUS AND SILICA		
UPPER EXPLOSION LIMIT NOT AVAILABLE	LOWER EXPLOSION LIMIT NOT AVAILABLE	AUTOIGNITION TEMP(C) NOT AVAILABLE
EXPLOSION DATA SENSITIVITY TO CHEMICAL IMPACT NOT AVAILABLE	RATE OF BURNING NOT AVAILABLE	EXPLOSIVE POWER 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: ACIDIC SUBSTANCES, REACTIVE METALS, LEATHER, ORGANIC HALOGEN COMPOUNDS, ORGANIC NITRO COMPOUNDS, AMMONIA.		
REACTIVITY AND UNDER WHAT CONDITIONS: IS EXOTHERMIC AND WILL BE NEUTRALIZED IN THE PRESENCE OF ACIDS. MAY GIVE OFF CHLORINE. MAY REACT WITH REACTIVE METALS.		
HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF CARBON AND PHOSPHOROUS, SILICA FUMES		

SECTION VI - HEALTH HAZARD DATA

ROUTE OF ENTRY:		
SKIN CONTACT: YES INHALATION: YES	SKIN ABSORPTION: YES INGESTION: YES	EYE CONTACT: YES

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EFFECTS OF ACUTE EXPOSURE TO MATERIAL:

EYES-MAY BE DESTRUCTIVE TO EYE TISSUE. CAN CAUSE BURNS THAT MAY RESULT IN EYE DAMAGE AND POSSIBLE BLINDNESS.

SKIN-CAN CAUSE SEVERE IRRITATION, BURNS, TISSUE DESTRUCTION. A LATENT PERIOD MAY EXIST BETWEEN EXPOSURE AND SENSE OF IRRITATION FOR POTASSIUM HYDROXIDE.

INHALATION-CAN CAUSE IRRITATION OF UPPER-RESPIRATORY TRACT.

INGESTION-CAN CAUSE BURNS AND TISSUE PERFORATION OF MUCOUS MEMBRANES OF MOUTH, THROAT, ESOPHAGUS AND STOMACH, VOMITING AND DIARRHEA.

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:

PROLONGED OR REPEATED EXPOSURES MAY CAUSE BLEACHING OF SKIN OR DERMATITIS.

LD 50 OF MATL.	LC 50 OF MATL.	EXPOSURE LIMITS	IRRITANCY OF MATL
NOT ESTABLISHED	NOT ESTABLISHED	NOT ESTABLISHED	CORROSIVE

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

SECTION VII - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: GLOVES & GLASSES IF USING CONCENTRATE

GLOVES: RUBBER / VINYL / PVA

RESPIRATORY: NOT REQUIRED FOR NORMAL USE. NIOSH/MSHA RESPIRATOR FOR MISTS AND CHLORINE WHERE TLV IS EXCEEDED.

EYE: SAFETY GOGGLES AND FULL FACE SHIELD IF SPLASHING OCCURS

FOOTWEAR: IMPERMEABLE

CLOTHING: IMPERMEABLE

OTHER: EYE WASH

ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): LOCAL EXHAUST.

LEAK AND SPILL PROCEDURE: CONTAIN SPILL. WEAR RECOMMENDED PROTECTIVE EQUIPMENT. PROVIDE ADEQUATE VENTILATION. SMALL SPILLS CAN BE FLUSHED WITH VOLUMES OF WATER. LARGE SPILLS-TRANSFER TO SUITABLE CONTAINER FOR REUSE OR DISPOSAL. ABSORB REMAINING MATERIAL ONTO SUITABLE ABSORBENT 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: HAZARDOUS PRODUCT. OBTAIN MEDICAL ATTENTION FOR ALL EXPOSURES OTHER THAN MINOR INSTANCES OF INHALATION OR SKIN CONTACT.
EYE CONTACT: FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. SEEK IMMEDIATE MEDICAL ATTENTION.
SKIN CONTACT: FLUSH THOROUGHLY WITH SOAP AND WATER. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION. WASH CONTAMINATED CLOTHING.
INHALATION: REMOVE TO FRESH AIR. APPLY ARTIFICIAL RESPIRATION IF NECESSARY. SEEK MEDICAL ATTENTION IF SYMPTOMS PERSIST.
INGESTION: DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. DRINK MILK OR WATER. DO NOT GIVE ANYTHING BY MOUTH IF VICTIM IS UNCONSCIOUS. GET MEDICAL ATTENTION IMMEDIATELY.

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 LIQUID, N.O.S. (POTASSIUM HYDROXIDE)	8	1760	III

HANDLING PROCEDURES AND EQUIPMENT:

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.

SPECIAL SHIPPING INFORMATION: NONE

SECTION X - HAZARD RATING INFORMATION

FLAMMABILITY	REACTIVITY	HEALTH
0	1	2

SECTION XI - PREPARATION DATE OF MSDS

PREPARED BY: TECHNICAL DEPARTMENT TELEPHONE # (905) 456-9444
REVIEWED: APRIL 22, 2003

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