



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: D1A, E

MATERIAL REFERENCE NO: 161600

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KEMOX	
CHEMICAL NAME: NOT APPLICABLE	CHEMICAL FAMILY: ACID BLEND
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: MIXTURE
SYNONYMS: NONE	
MATERIAL USE: CLEANER CONCENTRATE	

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. CONCENT.	TLV PPM	C.A.S. NUMBERS	LD 50 RAT, ORAL
HYDROCHLORIC ACID	10.0-30.0	2	7647-01-0	700 MG/KG
ETHOXYLATED ALCOHOL	1.0-5.0	NOT AVAILABLE	68131-39-5	2000 MG/KG

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID			
ODOUR AND APPEARANCE: CLEAR BLUE/GREEN LIQUID; SWEET ODOUR.			
ODOUR THRESHOLD (PPM)	SPECIFIC GRAVITY	VAPOUR PRESSURE (MM)	
NOT AVAILABLE	1.042	NOT ESTABLISHED	
VAPOUR DENSITY (AIR=1)	EVAPORATION RATE	SOLUBILITY IN WATER	
GREATER THAN 1	(WATER=1) 1	(20 ø C) COMPLETE	
BOILING POINT (C)	FREEZING POINT (C)	% VOLATILE (BY WEIGHT)	
NOT AVAILABLE	NOT AVAILABLE	90	
pH (1.0% SOLUTION)	DENSITY (G/ML)	COEF.OF WATER/OIL DISTR	
1.8-2.8	NOT APPLICABLE	NOT AVAILABLE	



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SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

FLAMMABILITY: NO			
IF YES, UNDER WHICH CONDITIONS:			
MEANS OF EXTINCTION: AS APPROPRIATE FOR SURROUNDING MATERIALS.			
SPECIAL PROCEDURES: WEAR FULL PROTECTIVE EQUIPMENT INCLUDING SELF-			
CONTAINED BREATHING APPARATUS. PROTECT AGAINST CORROSIVE LIQUIDS AND			
FUMES IF RELEASED. COOL FIRE EXPOSED CONTAINERS WITH WATER.			
FLASH POINT (C) AND METHOD: NON-FLAMMABLE			
HAZARDOUS COMBUSTION PRODUCTS: MAY EVOLVE HYDROGEN CHLORIDE FUMES,			
CHLORINE, CARBON DIOXIDE, CARBON MONOXIDE.			
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 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: STRONG OXIDIZERS, STRONG ALKALIES, AMINES,			
CARBONATES, CYANIDES, SULPHIDES, SULPHITES, MOST METALS.			
REACTIVITY AND UNDER WHAT CONDITIONS: CONTACT WITH SOME METALS MAY			
GENERATE FLAMMABLE HYDROGEN GAS WHICH MAY BE A LATENT EXPLOSION OR			
FIRE HAZARD. REACTS WITH STRONG ALKALIS TO LIBERATE HEAT.			
HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION CAN EMIT			
HYDROGEN CHLORIDE FUMES, CHLORINE, CARBON DIOXIDE, CARBON MONOXIDE.			

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 CAN CAUSE SEVERE IRRITATION, BURNS, CORNEAL SCARRING, |
|PERMANENT EYE INJURY. |
|SKIN-CONTACT WITH LIQUID CAN CAUSE SEVERE IRRITATION, BURNS, TISSUE |
|DAMAGE. PROLONGED CONTACT WITH VAPOURS OR MISTS MAY CAUSE REDNESS, |
|IRRITATION AND POSSIBLE BURNS. |
|INHALATION-MAY CAUSE IRRITATION OF NOSE, EYES AND THROAT, COUGHING, |
|DIZZINESS, NAUSEA, DIFFICULTY IN BREATHING. |
|INGESTION-MAY BE FATAL IF SWALLOWED. CAN CAUSE SEVERE IRRITATION OR |
|BURNS TO MOUTH, THROAT AND STOMACH. PAIN IN SWALLOWING, VOMITING, |
|NAUSEA AND DIARRHEA. ASPIRATION OF MATERIAL INTO LUNGS CAN CAUSE |
CHEMICAL PNEUMONITIS.

|EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: |
|SKIN-REPEATED AND PROLONGED CONTACT WITH LIQUID, MIST OR VAPOUR CAN |
|CAUSE REDNESS, SWELLING AND PAIN (DERMATITIS) |

|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 OR VINYL |
|RESPIRATORY: NIOSH APPROVED RESPIRATOR WITH ACID GAS CARTRIDGES IN |
| CONFINED OR POORLY VENTILATED AREAS OR IF TLV IS |
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SECTION VIII - FIRST AID MEASURES

PROCEDURES:
EYES-IMMEDIATELY FLUSH WITH RUNNING WATER FOR 30 MINUTES WHILE HOLDING EYELIDS OPEN. GET IMMEDIATE MEDICAL ATTENTION ONCE FLUSHING IS COMPLETE.
SKIN-IMMEDIATELY REMOVE CONTAMINATED CLOTHING AND FLUSH AFFECTED AREA WITH WATER FOR AT LEAST 30 MINUTES. GET IMMEDIATE MEDICAL ATTENTION. LAUNDER CONTAMINATED CLOTHING BEFORE RE-USE.
INHALATION-MOVE VICTIM TO FRESH AIR. ADMINISTER OXYGEN IF BREATHING IS DIFFICULT. IF NOT BREATHING APPLY ARTIFICIAL RESPIRATION AND GIVE OXYGEN. CONTACT A PHYSICIAN.
INGESTION-DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. IF VOMITING OCCURS KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF MATERIAL INTO LUNGS. NEVER GIVE ANYTHING BY MOUTH IF VICTIM IS UNCONSCIOUS OR CONVULSING. 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.	PACKING GROUP
CORROSIVE LIQUIDS N.O.S. (HYDROCHLORIC ACID)	8	1760	II

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

STORAGE REQUIREMENTS: STORE IN ORIGINAL CONTAINER IN A COOL, DRY, WELL-VENTILATED AREA. DO NOT STORE IN DIRECT SUNLIGHT. KEEP CONTAINER CLOSED WHEN NOT IN USE.

SPECIAL SHIPPING INFORMATION: NONE

SECTION X - HMIS HAZARD RATING INFORMATION

FLAMMABILITY	REACTIVITY	HEALTH
0	1	2

SECTION XI - PREPARATION DATE OF MSDS

PREPARED BY: TECHNICAL DEPARTMENT	TELEPHONE # (905) 456-9444
REVISED: OCTOBER 4, 2009	REPLACES: FEBRUARY 15, 2006

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