



# 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, D2B, E

MATERIAL REFERENCE NO: 162300

## SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KEMSOL	
CHEMICAL NAME: NOT APPLICABLE	CHEMICAL FAMILY: ACID BLEND
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: MIXTURE
SYNONYMS: NONE	
MATERIAL USE: BOWL RENOVATOR	

## SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS   INGREDIENTS	APPROX.   CONCENT.	TLV   PPM	C.A.S.   NUMBERS	LD 50   ORAL, RAT
HYDROCHLORIC ACID	10.0-30.0	2	7647-01-0	700 MG/KG   (RABBIT)
PHOSPHORIC ACID	1.0-5.0	1 MG/M <sup>3</sup>	7664-38-2	1530 MG/KG
QUATERNARY AMMONIUM   CHLORIDE	>1.0	NO DATA   AVAILABLE	139-08-2	420 MG/KG
ALCOHOL ETHOXYLATE	1.0-5.0	NO DATA   AVAILABLE	34398-01-1	NO DATA

## SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID		
ODOUR AND APPEARANCE: PALE PINK OPAQUE LIQUID; ACRID ODOUR.		
ODOUR THRESHOLD (PPM)   NOT ESTABLISHED	SPECIFIC GRAVITY   1.120	VAPOUR PRESSURE (MM)   NOT AVAILABLE
VAPOUR DENSITY (AIR=1)   GREATER THAN 1	EVAPORATION RATE   (WATER=1) APPROX .9	SOLUBILITY IN WATER   (20 ø C) COMPLETE
BOILING POINT (C)   >100	FREEZING POINT (C)   NOT AVAILABLE	% VOLATILE (BY WEIGHT)   >90
pH (1.0% SOLUTION)   1.0-2.0	DENSITY (G/ML)   NOT APPLICABLE	COEF.OF WATER/OIL DISTR   NOT AVAILABLE



# MATERIAL SAFETY DATA SHEET

MATERIAL REFERENCE NO: 162300

SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

---

| FLAMMABILITY: NON-FLAMMABLE

|



# MATERIAL SAFETY DATA SHEET

MATERIAL REFERENCE NO: 162300

|EFFECTS OF ACUTE EXPOSURE TO MATERIAL: |  
|EYES-CORROSIVE. CONTACT CAN CAUSE SEVERE IRRITATION, BURNS AND |  
|PERMANENT BLINDNESS. |  
|SKIN-CORROSIVE. CONTACT CAN CAUSE SEVERE IRRITATION, BURNS, PAINFUL |  
|BLISTERS. |  
|INHALATION-CAN CAUSE IRRITATION OF NOSE, EYES AND THROAT, COUGHING, |  
|NASAL DISCHARGE, CHEST PAIN. |  
|INGESTION-CORROSIVE. MAY BE FATAL IF SWALLOWED. CAUSES BURNS TO |  
|MOUTH, THROAT AND STOMACH. CAUSES NAUSEA, VOMITING, DIARRHEA. |  
|ASPIRATION OF MATERIAL INTO LUNGS CAN CAUSE CHEMICAL PNEUMONITIS |  
|WHICH CAN BE FATAL. |

|EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: |  
|EYES-CONTACT MAY CAUSE ULCERATION OF EYES, OPAQUENESS OF CORNEA, |  
| LOSS OF SIGHT |  
|SKIN-CONTACT MAY CAUSE IRREPARABLE DAMAGE TO TISSUES. |  
|INHALATION-PROLONGED OR REPEATED BREATHING OF VAPOURS MAY CAUSE |  
|CHEMICAL BRONCHITIS. |

|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: WEAR NIOSH/MSHA APPROVED RESPIRATOR EQUIPPED WITH ACID |  
| GAS CARTRIDGES IN POORLY VENTILATED OR CONFINED AREAS. |  
| EYE: SAFETY GOGGLES AND FACE SHIELD RECOMMENDED. |  
| FOOTWEAR: RUBBER BOOTS |  
| CLOTHING: RUBBER APRON |  
| OTHER: EYE WASH AND SAFETY SHOWER |  
|ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): PROVIDE |  
|EXHAUST VENTILATION AS NECESSARY TO MAINTAIN EXPOSURES WITHIN |  
|APPLICABLE LIMITS. |

|LEAK AND SPILL PROCEDURE: WEAR PROPER PROTECTIVE EQUIPMENT. CONTAIN |  
|SPILL. REMOVE IGNITION SOURCES. PROVIDE ADEQUATE VENTILATION. KEEP |  
|OUT OF LAKES, STREAMS AND WATERWAYS. TRANSFER TO SUITABLE, LABELED |  
|CONTAINER FOR RECLAIM OR DISPOSAL. ABSORB REMAINING MATERIAL ONTO |  
|INERT ABSORBENT AND SCOOP INTO LABELED DISPOSAL CONTAINER. FLUSH |  
|RESIDUAL WITH VOLUMES OF WATER. |

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



# MATERIAL SAFETY DATA SHEET

MATERIAL REFERENCE NO: 162300

## SECTION VIII - FIRST AID MEASURES

-----

| PROCEDURES: |

| EYES-IMMEDIATELY FLUSH WITH LUKEWARM RUNNING WATER FOR 30 MINUTES, |

| WHILE HOLDING EYELIDS OPEN. THEN GET IMMEDIATE MEDICAL ATTENTION. |

| SKIN-IMMEDIATELY REMOVE CONTAMINATED CLOTHING AND FLUSH AFFECTED |

| AREA FOR 30-60 MINUTES. GET IMMEDIATE MEDICAL ATTENTION. LAUNDRER |

| CLOTHING BEFORE REUSE. |

| 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. NEVER GIVE |

| ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON. GET |

| IMMEDIATELY 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
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. KEEP OUT OF REACH |

| OF CHILDREN. DO NOT USE NEAR AMMONIA COMPOUNDS. |

-----

| STORAGE REQUIREMENTS: STORE IN A COOL, DRY, WELL-VENTILATED AREA |

| AWAY FROM INCOMPATIBLE MATERIALS. KEEP CONTAINER CLOSED WHEN NOT IN |

| USE. KEEP FROM FREEZING. |

-----

| SPECIAL SHIPPING INFORMATION: NONE |

-----

## SECTION X - HMIS HAZARD RATING INFORMATION

-----

FLAMMABILITY	REACTIVITY	HEALTH
0	1	3

-----

## SECTION XI - PREPARATION DATE OF MSDS

-----

PREPARED BY: TECHNICAL DEPARTMENT	TELEPHONE # (905) 456-9444
REVISED: OCTOBER 4, 2009	REPLACES: NOVEMBER 9, 2005

-----

### DISCLAIMER:

THE INFORMATION CONTAINED HEREIN IS COMPILED FROM SOURCES BELIEVED TO BE RELIABLE. THE MANNER AND CONDITIONS OF USE AND HANDLING MAY INVOLVE OTHER AND ADDITIONAL CONSIDERATIONS. WE ACCEPT NO RESPONSIBILITY FOR THE ACCURACY, SUFFICIENCY, RELIABILITY OR FOR ANY LOSS OR INJURY RESULTING FROM THE USE OF THE INFORMATION.