



# 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, D2A, E

MATERIAL REFERENCE NO: 783900

## SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KEMTREET 839	
CHEMICAL NAME: NOT APPLICABLE	CHEMICAL FAMILY: INORGANIC ACIDS
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: MIXTURE
SYNONYMS: NONE	
MATERIAL USE: pH ADJUSTER	

## SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS   INGREDIENTS	APPROX.   CONCENT.	TLV   MG/M3	C.A.S.   NUMBERS	LD 50   RAT, ORAL	LC 50   RAT   INHALATION
SULPHURIC   ACID	45-70	>1	7664-93-9	2140 MG/KG	510 MG/M3

## SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID		
ODOUR AND APPEARANCE: PINK, VISCOUS LIQUID; LOW ODOUR.		
ODOUR THRESHOLD (PPM)	SPECIFIC GRAVITY	VAPOUR PRESSURE
NOT AVAILABLE	1.4	1.2-0.002 MM Hg
VAPOUR DENSITY (AIR=1)	EVAPORATION RATE	SOLUBILITY IN WATER
GREATER THAN 3.4	NOT AVAILABLE	(20 ° C) COMPLETE
BOILING POINT (C)	FREEZING POINT (C)	% VOLATILE (BY WEIGHT)
327	10.5	NOT AVAILABLE
pH (1.0% SOLUTION)	DENSITY (G/ML)	COEF.OF WATER/OIL DISTR
1.7	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: AS APPROPRIATE FOR SURROUNDING MATERIALS.			
SPECIAL PROCEDURES: WEAR FULL PROTECTIVE EQUIPMENT INCLUDING SELF-			
CONTAINED BREATHING APPARATUS. AVOID USING WATER AS IT GENERATES			
HEAT AND CAUSES SPLATTERING.			
FLASH POINT (C) AND METHOD: NONE (TCC)			
HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF SULPHUR.			
UPPER EXPLOSION LIMIT	LOWER EXPLOSION LIMIT	AUTOIGNITION TEMP (C)	
NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	
EXPLOSION DATA SENSITIVITY			
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:			
INCOMPATIBILITY TO OTHER SUBSTANCES: YES			
IF SO, WHICH ONES: STRONG ALKALIES, ORGANIC MATERIALS SUCH AS			
CHLORATES, CARBIDES, FULMINATES, NITRATES AND PICARATES. METALS AND			
REDUCING AGENTS.			
REACTIVITY AND UNDER WHAT CONDITIONS: REACTS VIOLENTLY WITH ALKALIES			
CAN REACT WITH SOME ORGANIC MATERIALS TO CAUSE FIRES AND EXPLOSIONS.			
CAN REACT WITH SOME METALS TO FORM FLAMMABLE HYDROGEN GAS.			
HAZARDOUS DECOMPOSITION PRODUCTS: SULPHUR DIOXIDE, SULPHURIC ACID			
VAPOURS, SULPHUR TRIOXIDE.			

## 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-IMMEDIATE PAIN, SEVERE BURNS AND CORNEAL DAMAGE, POSSIBLE BLINDNESS. SKIN-CONTACT CAN CAUSE PAIN AND SEVERE BURNS TO SKIN AND BROWNISH OR YELLOW STAINS. INHALATION-MISTS AND VAPOURS MAY CAUSE IRRITATION OF EYES, SKIN AND RESPIRATORY TRACT. MAY CAUSE INCREASED PULMONARY RESISTANCE, TRANSIENT COUGH AND BRONCHOCONSTRICTION. SEVERE OVEREXPOSURE MAY RESULT IN LUNG COLAPSE AND PULMONARY EDEMA WHICH MAY BE FATAL. INGESTION-SEVERE BURNING AND PAIN IN MOUTH, THROAT AND ABDOMEN. VOMITING, DIARRHEA AND PERFORATION OF ESOPHAGUS AND STOMACH LINING.

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: SKIN-PROLONGED OR REPEATED EXPOSURE TO DILUTE SOLUTIONS MAY CAUSE IRRITATION, REDNESS, PAIN AND DRYING AND CRACKING OF SKIN. INHALATION-PROLONGED/REPEATED EXPOSURE MAY RESULT IN IMPAIRED LUNG FUNCTION AND POSSIBLE DISCOLOURATION AND ERROSION OF TEETH. NOTE-CORROSIVE EFFECTS ON SKIN AND EYES MAY BE DELAYED, AND DAMAGE MAY OCCUR WITHOUT PAIN. GET MEDICAL ATTENTION IMMEDIATELY.

LD 50 OF MATL.	LC 50 OF MATL.	EXPOSURE LIMIT(S)	IRRITANCY OF MATL
RAT, ORAL	RAT, INHALATION	TLV 1 MG/M3	EXTREMELY
2140 MG/KG	90 PPM/4HOURS	0.25 PPM	CORROSIVE

SENSITIZATION OF MATERIAL	SYNERGISTIC MATERIALS
NOT AVAILABLE	NOT AVAILABLE

CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY  
SULPHURIC ACID IS A CANCER HAZARD.

## SECTION VII - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

GLOVES: NEOPRENE, PVC, BUTYL RUBBER  
RESPIRATORY: APPROVED AIR PURIFYING RESPIRATOR WITH ACID GAS/FUME, DUST, MIST CARTRIGES FOR CONCENTRATIONS UP TO 10 MG/M3.  
EYE: CHEMICAL GOGGLES AND FACE SHIELD  
FOOTWEAR: RUBBER BOOTS  
CLOTHING: RUBBER APRON  
OTHER: EYE WASH AND SAFETY SHOWER  
ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): PROCESS ENCLOSURE LOCAL EXHAUST OR OTHER CONTROLS TO MAINTAIN VAPOURS BELOW EXPOSURE GUIDELINES.

LEAK AND SPILL PROCEDURE: WEAR PROTECTIVE CLOTHING. CONTAIN SPILL. DIKE WITH INERT MATERIAL (SAND, EARTH, ETC.). TRANSFER TO CONTAINER FOR RECLAIM OR DISPOSAL. CAREFULLY ABSORB REMAINING MATERIAL ONTO INERT, DRY ABSORBANT AND SCOOP INTO DISPOSAL CONTAINER. NEUTRALIZE REMAINING RESIDUE WITH DILUTE SOLUTION OF SODIUM CARBONATE. FLUSH WITH VOLUMES OF WATER. PREVENT ENTRY INTO SEWERS, LAKES & WATERWAYS.

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



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## SECTION VIII - FIRST AID MEASURES

| PROCEDURES: EYES- IMMEDIATELY FLUSH WITH RUNNING WATER FOR AT LEAST |  
| 20 MINUTES. HOLD EYELIDS OPEN DURING FLUSHING. REPEAT IF IRRITATION |  
| PERSISTS. GET IMMEDIATE MEDICAL ASSISTANCE. |  
| SKIN-FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 20 MINUTES. |  
| REMOVE CONTAMINATED CLOTHING. REPEAT FLUSHING IF IRRITATION PERSISTS |  
| OBTAIN IMMEDIATE MEDICAL ATTENTION. LAUNDRY CLOTHING BEFORE REUSE. |  
| INHALATION-REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION ONLY IF |  
| BREATHING HAS STOPPED. GIVE CARDIOPULMONARY RESUSITATION IF THERE IS |  
| NO BREATHING AND NO PULSE. GET IMMEDIATE MEDICAL ATTENTION. |  
| INGESTION-DO NOT INDUCE VOMITING. IF VICTIM IS ALERT AND NOT |  
| CONVULSING RINSE MOUTH WITH WATER. IF VOMITING OCCURS KEEP HEAD |  
| BELOW HIPS TO PREVENT ASPIRATION OF MATERIAL INTO LUNGS. GET |  
| IMMEDIATE MEDICAL ATTENTION. |

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

| ADDITIONAL INFORMATION: HANDLE WITH EXTREME CARE. |

## SECTION IX - TDG SHIPPING INFORMATION

SHIPPING NAME	CLASS	UN NO.	PG
SULPHURIC ACID SOLUTION	8	1830	II

| HANDLING PROCEDURES AND EQUIPMENT: USE EXTREME CAUTION. WEAR PROPER |  
| PROTECTIVE CLOTHING. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. |  
| WASH THOROUGHLY AFTER HANDLING. |

| STORAGE REQUIREMENTS: ALWAYS STORE IN ORIGINAL CONTAINER, TIGHTLY |  
| SEALED AND AWAY FROM EASILY OXIDIZED OR ACID SENSITIVE MATERIALS. |  
| FOLLOW LABEL DIRECTIONS. |

| SPECIAL SHIPPING INFORMATION: DO NOT SHIP NEAR ALKALIES |

## 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: OCTOBER 10, 2009 |

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