



# 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: 781800

## SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KT 818	
CHEMICAL NAME: MIXTURE	CHEMICAL FAMILY: ACIDIC BLEND
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: NOT APPLICABLE
SYNONYMS: NONE	
MATERIAL USE: LIQUID pH CONTROL & DE-SCALER	

## SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS   INGREDIENTS	APPROX.   % CONCENT.	TLV   PPM	C.A.S.   NUMBERS	LD 50   ORAL, RAT
SULPHAMIC ACID	10.0-30.0	1 MG/M3	5329-14-6	1450 MG/KG

## SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID		
ODOUR AND APPEARANCE: CLEAR, NEGLIGIBLE ODOUR.		
ODOUR THRESHOLD (PPM)	SPECIFIC GRAVITY	VAPOUR PRESSURE (MM)
NOT AVAILABLE	1.08	NOT AVAILABLE
VAPOUR DENSITY (AIR=1)	EVAPORATION RATE	SOLUBILITY IN WATER
>1	NOR APPLICABLE	(20øC) > COMPLETE
BOILING POINT (C)	FREEZING POINT (C)	% VOLATILE (BY WEIGHT)
NOT APPLICABLE	NOT AVAILABLE	MORE THAN 70%
pH (100% SOLUTION)	DENSITY (G/ML)	COEF.OF WATER/OIL DISTR
1.0-2.0	NOT APPLICABLE	NOT AVAILABLE



# MATERIAL SAFETY DATA SHEET

MATERIAL REFERENCE NO: 781800

## SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

FLAMMABILITY: NON-FLAMMABLE			
IF YES, UNDER WHICH CONDITIONS:			
MEANS OF EXTINCTION: WATER SPRAY, ALCOHOL FOAM, CARBON DIOXIDE, DRY			
CHEMICAL.			
SPECIAL PROCEDURES: WEAR FULL PROTECTIVE GEAR INCLUDING SELF-			
CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS.			
MAY EVOLVE SULFUR DIOXIDE VAPOURS AT HIGH TEMPERATURES.			
FLASH POINT (C) AND METHOD: NOT APPLICABLE			
HAZARDOUS COMBUSTION PRODUCTS: MAY EVOLVE SULFUR DIOXIDE, SULPHUR			
OXIDE, AMMONIA, HAZARDOUS FUMES, NITROGEN.			
UPPER EXPLOSION LIMIT	LOWER EXPLOSION LIMIT	AUTOIGNITION TEMP (C)	
NOT APPLICABLE	NOT APPLICABLE	NOT AVAILABLE	
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: NORMALLY STABLE		
IF NO, UNDER WHICH CONDITIONS: SULPHAMIC ACID SLOWLY HYDROLYZES IN		
SOLUTION.		
INCOMPATIBILITY TO OTHER SUBSTANCES: YES		
IF SO, WHICH ONES: OXIDIZING AGENTS, STRONG ALKALIES, STRONG ACIDS,		
CHLORINE, POTASSIUM CHLORATE, METAL SULPHIDES, NITRATES, NITRITES,		
BROMINE. MAY CORRODE SUCH METALS AS LEAD AND ALUMINUM.		
REACTIVITY AND UNDER WHAT CONDITIONS: HEATING SULPHAMIC ACID WITH		
SODIUM OR POTASSIUM NITRATES OR NITRITES CAN LEAD TO REACTIONS WHICH		
MAY BE EXPLOSIVE.		
HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION MAY EVOLVE		
SULFUR DIOXIDE, SULPHUR OXIDE, AMMONIA, HAZARDOUS FUMES, NITROGEN.		

## SECTION VI - HEALTH HAZARD DATA

ROUTE OF ENTRY:			
SKIN CONTACT: YES	SKIN ABSORPTION: NO	EYE CONTACT: YES	
INHALATION: YES	INGESTION: YES		



# MATERIAL SAFETY DATA SHEET

MATERIAL REFERENCE NO: 781800

EFFECTS OF ACUTE EXPOSURE TO MATERIAL:  
EYES-CORROSIVE. CAUSES BLURRED VISION, REDNESS, TEARING. CAN CAUSE SEVERE BURNS.  
SKIN-CORROSIVE. CONTACT MAY CAUSE REDNESS AND BLISTERING  
INHALATION-DESTRUCTIVE TO TISSUES OF MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT. SYMPTOMS MAY INCLUDE BURNING SENSATION, COUGHING, WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA, VOMITING.  
INGESTION-CORROSIVE. MAY CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, DIARRHEA.

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:  
SKIN-MAY CAUSE DERMATITIS.  
INHALATION-REPEATED OR PROLONGED INHALATION OF HIGH CONCENTRATIONS OF VAPOURS MAY CAUSE ULCERATION AND PERFORATION OF NASAL SEPTUM, PULMONARY EDEMA.  
INGESTION-MAY CAUSE KIDNEY AND LIVER DAMAGE.

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

SENSITIZATION OF MATERIAL	SYNERGISTIC MATERIALS
NOT AVAILABLE	NOT AVAILABLE

CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY:  
NONE

## SECTION VII - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

GLOVES: RUBBER OR VINYL  
RESPIRATORY: NIOSH APPROVED FOR ACID VAPOURS.  
EYE: FACE SHIELD AND SAFETY GOGGLES  
FOOTWEAR: IMPERVIOUS RECOMMENDED  
CLOTHING: SUFFICIENT TO PREVENT SKIN CONTACT  
OTHER: EYE WASH AND SAFETY SHOWER  
ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): LOCAL AS NEEDED TO MAINTAIN EXPOSURES WITHIN ACCEPTABLE LIMITS.

LEAK AND SPILL PROCEDURE: WEAR RECOMMENDED PROTECTIVE EQUIPMENT.  
CAREFULLY TRANSFER TO SUITABLE CONTAINER FOR REUSE OR DISPOSAL  
NEUTRALIZE RESIDUAL WITH LIME SLURRY, LIMESTONE OR SODA ASH. FLUSH WITH VOLUMES OF WATER.

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



# MATERIAL SAFETY DATA SHEET

MATERIAL REFERENCE NO: 781800

## SECTION VIII - FIRST AID MEASURES

PROCEDURES:  
EYES-IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR AT LEAST 20 MINUTES WHILE HOLDING EYELIDS OPEN. OBTAIN IMMEDIATE MEDICAL ASSISTANCE.  
SKIN-REMOVE CONTAMINATED CLOTHING AND WASH AFFECTED AREA WITH SOAP AND WATER FOR AT LEAST 20 MINUTES. IF PAIN OR IRRITATION PERSIST, SEEK MEDICAL ASSISTANCE. LAUNDER CLOTHING BEFORE REUSE.  
INHALATION-MOVE VICTIM TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF NOT BREATHING, ADMINISTER ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION.  
INGESTION-DO NOT INDUCE VOMITING. 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 LIQUID, N.O.S. (SULPHAMIC ACID)	8	1760	II

HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID CREATING AND BREATHING DUST. WASH THOROUGHLY AFTER HANDLING.

STORAGE REQUIREMENTS: STORE IN TIGHTLY SEALED CONTAINERS IN A COOL, DRY AREA

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 10, 2009      REPLACES: JANUARY 5, 2006

### 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.