



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: E

MATERIAL REFERENCE NO: 554400

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KEMTREET SB-544	
CHEMICAL NAME: SULPHAMIC ACID	CHEMICAL FAMILY: INORGANIC ACID
CHEMICAL FORMULA: H ₂ SO ₃ NH ₂	MOLECULAR WEIGHT: NOT APPLICABLE
SYNONYMS: NONE	
MATERIAL USE: POWDERED DE-SCALER	

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. % CONCENT.	TLV PPM	C.A.S. NUMBERS	LD 50 ORAL, RAT
SULPHAMIC ACID	60.0-100.0	1 MG/M3	5329-14-6	1450 MG/KG

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: SOLID		
ODOUR AND APPEARANCE: WHITE TO OFF WHITE CRYSTALS; ODOURLESS.		
ODOUR THRESHOLD (PPM) NOT AVAILABLE	SPECIFIC GRAVITY 2.12	VAPOUR PRESSURE (MM) NOT AVAILABLE
VAPOUR DENSITY (AIR=1) 3.3	EVAPORATION RATE NOR APPLICABLE	SOLUBILITY IN WATER 14.7% @ °C
BOILING POINT (C) NOT APPLICABLE	FREEZING POINT (C) NOT AVAILABLE	% VOLATILE (BY WEIGHT) LESS THAN 1%
pH 1.0% SOLUTION) 1.18	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: NOT APPLICABLE			
MEANS OF EXTINCTION: WATER SPRAY, ALCOHOL FOAM, CARBON DIOXIDE, DRY			
CHEMICAL			
SPECIAL PROCEDURES: WEAR FULL PROTECTIVE GEAR INCLUDING SELF-			
CONTAINED BREATHING APPARATUS. AQUEOUS SOLUTIONS ARE HIGHLY ACIDIC.			
FLASH POINT (C) AND METHOD: NONE			
HAZARDOUS COMBUSTION PRODUCTS: MAY EVOLVE OXIDES OF SULPHUR, AND			
NITROGEN, AMMONIA.			
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 APPLICABLE			

SECTION V – REACTIVITY DATA

CHEMICAL STABILITY: STABLE			
IF NO, UNDER WHICH CONDITIONS: NOT APPLICABLE			
INCOMPATIBILITY TO OTHER SUBSTANCES: YES			
IF SO, WHICH ONES: STRONG OXIDIZERS, CHLORINE, POTASSIUM CHLORATE,			
NITRIC ACID, METAL SUPHIDES, NITRATES, NITRITES, STRONG BASES,			
BROMINE.			
REACTIVITY AND UNDER WHAT CONDITIONS: SULPHAMIC ACID CAN REACT WITH			
AMMONIUM CHLORIDE TO PRODUCE EXPLOSIVE NITROGEN TRICHLORIDE. HEATING			
WITH SODIUM OR POTASSIUM NITRATES OR NITRITES CAN CAUSE REACTIONS			
WHICH MAY BE EXPLOSIVE, REACTS WITH NITRIC ACID TO VIOLENTLY RELEASE			
NITROUS OXIDE.			
HAZARDOUS POLYMERIZATION WILL NOT OCCUR			
HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION WILL EVOLVE			
OXIDES OF SULPHUR AND NITROGEN, AMMONIA.			

SECTION VI – HEALTH HAZARD DATA

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



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| EFFECTS OF ACUTE EXPOSURE TO MATERIAL: CORROSIVE TO ALL TISSUES. |
| EYES-CONTACT CAN CAUSE BLURRED VISION, REDNESS AND TEARING, SEVERE |
| BURNS. |
| SKIN-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 AND |
| VOMITING. VAPOURS MAY CAUSE PULMONARY EDEMA. |
| INGESTION-MAY CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING |
| AND DIARRHEA. MAY CAUSE KIDNEY AND LIVER DAMAGE. |

| EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: |
| SKIN-MAY CAUSE DERMATITIS. |

| 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: IMPERVIOUS |
| RESPIRATORY: APPROVED NIOSH ORGANIC VAPOUR AND DUST RESPIRATOR |
| EYE: SAFETY GOGGLES |
| FOOTWEAR: IMPERVIOUS |
| CLOTHING: SUITABLE TO PREVENT CONTACT WITH SKIN. |
| OTHER: EYE WASH AND SAFETY SHOWER |
| ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): LOCAL AS |
| NEEDED TO MAINTAIN EXPOSURES WITHIN APPLICABLE LIMITS. |

| LEAK AND SPILL PROCEDURE: WEAR RECOMMENDED PROTECTIVE EQUIPMENT. |
| PREVENT ENTRY INTO SEWERS AND STREAMS. CAREFULLY SCOOP UP AND |
| TRANSFER TO SUITABLE CONTAINER FOR REUSE OR DISPOSAL. NEUTRALIZE |
| RESIDUAL WITH DILUTE LIME SLURRY, LIMESTONE OR SODA ASH. FLUSH WITH |
| VOLUMES OF WATER. |

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



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SECTION VIII - FIRST AID MEASURES

PROCEDURES:
EYES-IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR AT LEAST 20 MINUTES WHILE HOLDING EYELIDS OPEN. GET IMMEDIATE MEDICAL ATTENTION.
SKIN-REMOVE CONTAMINATED CLOTHING AND WASH AFFECTED AREA WITH SOAP AND WATER FOR 20 MINUTES. IF PAIN OR IRRITATION PERSIST, SEEK MEDICAL ASSISTANCE. LAUNDRER 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 TO AN UNCONSCIOUS OR CONVULSING PERSON. 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
SULPHAMIC ACID	8	2967	III

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

STORAGE REQUIREMENTS: STORE IN TIGHTLY SEALED CONTAINERS IN A COOL, DRY AREA. AVOID HUMID AREAS OR WATER CONTAMINATION DURING STORAGE.

SPECIAL SHIPPING INFORMATION: NONE

SECTION X - HMIS HAZARD RATING INFORMATION

FLAMMABILITY	REACTIVITY	HEALTH
0	0	3

SECTION XI - PREPARATION DATE OF MSDS

PREPARED BY: TECHNICAL DEPARTMENT	TELEPHONE # (905) 456-9444
REVISED: OCTOBER 10, 2009	REPLACES: JULY 9, 2004

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