

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: D2A, E

MATERIAL REFERENCE NO: 760500

SECTION I - MATERIAL IDENTIFICATION AND USE

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|MATERIAL NAME/I.D.: KEMTREET 605 |

|CHEMICAL NAME : NOT APPLICABLE | CHEMICAL FAMILY : ACID BLEND

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| CHEMICAL FORMULA: MIXTURE | MOLECULAR WEIGHT: NOT APPLICABLE |

SYNONYMS: NONE

MATERIAL USE: CONCENTRATED COOLING WATER TREATMENT

#### SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS   INGREDIENTS	APPROX.  % CONCENT.	TLV	C.A.S. NUMBERS	LD 50     ORAL, RAT
SULPHURIC ACID ZINC SULPHATE 1-HYDROXYETHYLIDENE -1,1,DIPHOSPHONIC ACID		1 MG/M3    NOT AVAIL  NOT AVAIL 	7664-93-9 7733-02-0 2809-21-4	2100 MG/KG     2449 MG/KG     2400 GM/KG
SODIUM POLYACRYLATE   PHOSPHINO PROPONATE   SODIUM TOLYTRIAZOLE   MALEIC ANHYDRIDE   CO-POLYMER	1.0-5.0 1.0-5.0 1.0-5.0	NOT AVAIL NOT AVAIL NOT AVAIL NOT AVAIL	9003-04-7 71050-62-9 29385-43-1 113221-69-5	NOT AVAIL   >10 MG/KG   15 MG/KG   3870 MG/KG

SECTION III - PHYSICAL DATA FOR MATERIAL

|PHYSICAL STATE: LIQUID |

ODOUR AND APPEARANCE: CLEAR PALE YELLOW LIQUID; ACRID ODOUR.

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|ODOUR THRESHOLD (PPM) | SPECIFIC GRAVITY | VAPOUR PRESSURE (MM) | 50 PPM CALCULATED | 1.112 | 760 AT 93.3 (C) |

|VAPOUR DENSITY (AIR=1) | EVAPORATION RATE | SOLUBILITY IN WATER | 1 | (WATER = 1) 1.1 | (200C) COMPLETE

BOILING POINT (C)	FREEZING POINT (C)	VOLATILE (BY WEIGHT)
93.3	NOT AVAILABLE	80
PH (10% SOLUTION)	DENSITY (G/ML)	COEF.OF WATER/OIL DISTR
1.7-1.9	NOT APPLICABLE	NOT AVAILABLE



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SECTION IV -	FIRE	AND	EXPLOSION	HAZARD	OF	MATERIAL
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| FLAMMABILITY: NON FLAMMABLE

IF YES, UNDER WHICH CONDITIONS:

MEANS OF EXTINCTION: CHEMICAL FOAM, CARBON DIOXIDE, WATER FOG

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SPECIAL PROCEDURES: WEAR FULL PROTECTIVE GEAR INCLUDING SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER.

|FLASH POINT (C) AND METHOD: MINIMUM 100 (TCC)

| HAZARDOUS COMBUSTION PRODUCTS: CARBON IOXIDE, CARBON MONOXIDE,

MAY EVOLVE SULPHUR DIOXIDE VAPOURS ON BOILING.

| UPPER EXPLOSION LIMIT | LOWER EXPLOSION LIMIT | AUTOIGNITION TEMP(C) | NOT AVAILABLE | NOT AVAILABLE | NOT AVAILABLE |

EXPLOSION DATA SENSITIVITY	RATE OF BURNING	EXPLOSIVE POWER	
TO CHEMICAL IMPACT			
NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	

|SENSITIVITY TO STATIC DISCHARGE: NOT AVAILABLE

### SECTION V - REACTIVITY DATA

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CHEMICAL STABILITY: NORMALLY STABLE

| IF NO, UNDER WHICH CONDITIONS: HIGH TEMPERATURES

INCOMPATIBILITY TO OTHER SUBSTANCES: YES

| IF SO, WHICH ONES: AVOID CONTACT WITH STRONG ALKALIES OR OTHER | REACTIVE MATERIALS. MAY CORRODE SUCH METALS AS STEEL, IRON, TIN | BRASS.

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REACTIVITY AND UNDER WHAT CONDITIONS: NOT KNOWN HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

| HAZARDOUS DECOMPOSITION PRODUCTS: MAY EVOLVE SULPHUR DIOXIDE GAS ON BOILING.

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#### SECTION VI - HEALTH HAZARD DATA

ROUTE OF ENTRY:

| SKIN CONTACT: YES | SKIN ABSORPTION: YES | EYE CONTACT: YES | INGESTION: YES |



MATERIAL REFERENCE NO: 760500

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EFFECTS OF ACUTE EXPOSURE TO MATERIAL:

EYES-CONTACT MAY CAUSE STINGING OR BURNING, INTENSE WATERING, CONJUNCTIVITIS.

SKIN-CONTACT MAY CAUSE BURNING, INFLAMMATION, PAINFUL BLISTERS. INHALATION-MAY CAUSE SEVERE IRRITATION OF NOSE, EYES AND THROAT, COUGHING, DIFFICULTY IN BREATHING.

INGESTION-MAY CAUSE IRRITATION AND BURNING SENSATION OF LIPS, MOUTH AND THROAT, PAIN IN SWALLOWING, GASTRO-INTESTINAL IRRITATION, ABUNDANT SALIVATION, STOMACH CRAMPS, NAUSEA AND VOMITING.

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:

EYES-FREOUENT OR PROLONGED CONTACT MAY CAUSE CORNEAL SCARRING, CLOUDING, GLAUCOMA, CATARACTS.

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INHALATION OF LARGE QUANTITIES OF VAPOUR OR MIST MAY CAUSE LIVER AND KIDNEY DAMAGE.

INGESTION OF SIGNIFICANT QUANTITIES OF SULPHURIC ACID MAY CAUSE LIVER AND KIDNEY DAMAGE, CARDIOVASCULAR EFFECTS.

\_\_\_\_\_ 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: SULPHURIC ACID IS CLASSIFIED AS CARCINOGENIC BY IARC.

SECTION VII - PREVENTIVE MEASURES

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PERSONAL PROTECTIVE EQUIPMENT:

GLOVES: RUBBER OR VINYL

RESPIRATORY: APPROVED FOR ACID MIST OR VAPOURS

EYE: FACE SHIELD OR SAFETY GOGGLES

FOOTWEAR: IMPERMEABLE CLOTHING: RUBBER APRON.

OTHER: EYE WASH AND SAFETY SHOWER

ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): LOCAL

AS NEEDED TO CONTROL FUMES.

LEAK AND SPILL PROCEDURE: STOP LEAKS AND CONTAIN SPILL. RECLAIM IF POSSIBLE OR DILUTE SPILL WITH LARGE AMOUNTS OF WATER THEN NEUTRALIZE WITH DILUTE SODA ASH OR LIME. AFTER ALL VISIBLE TRACES HAVE BEEN REMOVED, FLUSH AREA WITH LARGE AMOUNTS 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 15 MINUTES. OBTAIN MEDICAL ASSISTANCE.

SKIN-REMOVE CONTAMINATED CLOTHING AND FLUSH AFFECTED AREA WITH WATER FOR 15 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 AND THEN GIVE OXYGEN. GET MEDICAL ATTENTION.

INGESTION-IF SWALLOWED-DO NOT INDUCE VOMITING. GIVE MILK OF MAGNESIA MILK OR EGG WHITES.IF VOMITING OCCURS, GIVE FLUIDS AGAIN.

GET IMMEDIATE MEDICAL ATTENTION.

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

|ADDITIONAL INFORMATION: NONE

#### SECTION IX - TDG SHIPPING INFORMATION

| CLASS | UN NO. | PG SHIPPING NAME | 8 | 1760 | III CORROSIVE LIQUID, N.O.S. (SULPHURIC ACID)

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

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STORAGE REQUIREMENTS: STORE IN A COOL, DRY WELL VENTILATED AREA IN ORIGINAL CONTAINER PROPERLY SEALED.

-----|SPECIAL SHIPPING INFORMATION: HEATED \_\_\_\_\_\_

#### SECTION X - HMIS HAZARD RATING INFORMATION

\_\_\_\_\_\_ FLAMABILITY | REACTIVITY 0 | 1

### SECTION XI - PREPARATION DATE OF MSDS

PREPARED BY: TECHNICAL DEPARTMENT TELEPHONE # (905) 456-9444 |REVIEWED: JANUARY 14, 2003

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