



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

MATERIAL REFERENCE NO: 745200

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KT # 452	
CHEMICAL NAME: NOT APPLICABLE	CHEMICAL FAMILY: BLENDED PRODUCT
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: NOT APPLICABLE
SYNONYMS: NONE	
MATERIAL USE: STEAM BOILER TREATMENT	

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. % CONCENT.	TLV PPM	C.A.S. NUMBERS	LD 50 ORAL, RAT
SODIUM HYDROXIDE	1.0-5.0	2 MG/M3	1310-73-2	500 MG/KG
				(ORAL LDLo (RBT)
AMINOTRI (METHYLENE-	1.0-5.0	NO DATA	6419-19-8	2910 MG/KG
PHOSPHONIC ACID		AVAILABLE		
POLYMALEIC ACID	1.0-5.0	NOT	26099-09-2	NOT
(SODIUM SALT)		AVAILABLE		AVAILABLE

SECTION III - PHYSICAL DATA FOR MATERIAL

ODOUR AND APPEARANCE: CLEAR, PALE, AMBER LIQUID; MILD ODOUR.			
ODOUR THRESHOLD (PPM)	SPECIFIC GRAVITY	VAPOUR PRESSURE (MM)	
NOT ESTABLISHED	1.02	NOT ESTABLISHED	
VAPOUR DENSITY (AIR=1)	EVAPORATION RATE	SOLUBILITY IN WATER	
NOT ESTABLISHED	NOT AVAILABLE	(20°C) COMPLETE	
BOILING POINT (C)	FREEZING POINT (C)	% VOLATILE (BY VOLUME)	
NOT AVAILABLE	NOT AVAILABLE	>91	
pH (100 % SOLUTION)	DENSITY (G/ML)	COEF.OF WATER/OIL DISTR	
7.5-8.5	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: WATER FOG, CARBON DIOXIDE, DRY CHEMICAL			
SPECIAL PROCEDURES: WEAR FULL PROTECTIVE EQUIPMENT INCLUDING SELF-			
CONTAINED BREATHING APPARATUS.			
FLASH POINT (C) AND METHOD: NONE			
HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF CARBON, NITROGEN AND			
PHOSPHOROUS, ACRYLIC MONOMERS, TOXIC ORGANIC FUMES/VAPOURS.			
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

CHEMICAL STABILITY: STABLE			
IF NO, UNDER WHICH CONDITIONS:			
INCOMPATIBILITY TO OTHER SUBSTANCES: YES			
IF SO, WHICH ONES: ACIDS, REACTIVE METALS, ORGANIC HALOGENS, ORGANIC			
NITRO COMPOUNDS.			
REACTIVITY AND UNDER WHAT CONDITIONS: CAN REACT WITH ACIDS TO			
PRODUCE HEAT. CAN REACT WITH SOME METALS TO GIVE OFF FLAMMABLE			
HYDROGEN GAS.			
HAZARDOUS POLYMERIZATION WILL NOT OCCUR.			
HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION WILL YIELD			
OXIDES OF CARBON, NITROGEN AND PHOSPHOROUS, ACRYLIC MONOMERS, TOXIC			
ORGANIC FUMES/VAPOURS.			

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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| EYES-MAY CAUSE IRRITATION. EXCESSIVE CONTACT MAY CAUSE EYE DAMAGE. |
| SKIN-MAY CAUSE MODERATE IRRITATION. |
| INHALATION-MAY CAUSE IRRITATION OF MOUTH, THROAT AND LARYNX. |
| EXCESSIVE MIST INHALATION MAY CAUSE LUNG DAMAGE WHICH COULD |
| RESULT IN CHEMICAL PNEUMONIA. |
| INGESTION-OF LARGE AMOUNTS MAY RESULT IN GASTRO-INTESTINAL |
| IRRITATION OR ULCERATION. |

| EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: |
| MAY CAUSE DERMITITIS UPON FREQUENT OR PROLONGED CONTACT. |

| LD 50 OF MATL. | LC 50 OF MATL. | EXPOSURE LIMITS | IRRITANCY OF MATL |
| NOT AVAILABLE | NOT AVAILABLE | NOT ESTABLISHED | MODERATE |

| SENSITIZATION OF MATERIAL | SYNERGISTIC MATERIALS |
| NOT AVAILABLE | NOT AVAILABLE |

| CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY: |
| NONE KNOWN |

SECTION VII - PREVENTIVE MEASURES

| PERSONAL PROTECTIVE EQUIPMENT: GLOVES & GLASSES IF USING CONCENTRATE |

| GLOVES: RUBBER / VINYL / PVA |
| RESPIRATORY: AIR PURIFYING RESPIRATOR IF MISTY CONDITIONS PREVAIL. |
| EYE: SAFETY GOGGLES OR FACE SHIELD |
| FOOTWEAR: IMPERMEABLE |
| CLOTHING: IMPERMEABLE |
| OTHER: EYE WASH AND SAFETY SHOWER |
| ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): GENERAL IS |
| NORMALLY SUFFICIENT. |

| LEAK AND SPILL PROCEDURE: WEAR RECOMMENDED PROTECTIVE EQUIPMENT. |
| CONTAIN SPILL. TRANSFER TO SUITABLE CONTAINER FOR REUSE 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. |



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SECTION VIII - FIRST AID MEASURES

| PROCEDURES: |
| EYE CONTACT: IMMEDIATELY FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT |
| LEAST 15 MINUTES. GET MEDICAL ATTENTION. |
| SKIN CONTACT: FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 |
| MINUTES WHILE REMOVING CONTAMINATED CLOTHING. IF IRRITATION PERSISTS |
| SEEK MEDICAL ATTENTION. LAUNDRY CLOTHING BEFORE REUSE. |
| INHALATION: REMOVE TO FRESH AIR. GIVE OXYGEN IF BREATHING IS |
| DIFFICULT. SEEK MEDICAL ATTENTION. |
| INGESTION: DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. DO NOT |
| GIVE ANYTHING BY MOUTH IF VICTIM IS UNCONSCIOUS OR CONVULSING. GET |
MEDICAL ATTENTION IMMEDIATELY.
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
NOT REGULATED			

| HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH EYES, SKIN AND |
CLOTHING. WASH THOROUGHLY AFTER HANDLING.
STORAGE REQUIREMENTS: STORE IN A COOL, DRY AREA. KEEP CONTAINER
CLOSED WHEN NOT IN USE. KEEP FROM FREEZING.

SPECIAL SHIPPING INFORMATION: NONE

SECTION X - HAZARD RATING INFORMATION

| FLAMMABILITY | REACTIVITY | HEALTH |
| 0 | 0 | 2 |

SECTION XI - PREPARATION DATE OF MSDS

| PREPARED BY: TECHNICAL DEPARTMENT TELEPHONE # (905) 456-9444 |
REVIEWED: OCTOBER 10, 2009

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