



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: 742100

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KT # 421	
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 SALT OF POLYACRYLIC ACID	1.0-5.0	NO DATA	9003-04-7	NO DATA	
SODIUM HYDROXIDE	1.0-5.0	2	1310-73-2	140 MG/KG	
POLYMALEIC ACID	1.0-5.0	NO DATA	26099-09-2	NO DATA	

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID			
ODOUR AND APPEARANCE: CLEAR, AMBER COLOUR; ACRID ODOUR.			
ODOUR THRESHOLD (PPM)	SPECIFIC GRAVITY	VAPOUR PRESSURE (MM)	
NOT ESTABLISHED	1.045	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)	
100 (C) ESTIMATED	0 (C) ESTIMATED	>80	
pH (10.0 % SOLUTION)	DENSITY (G/ML)	COEF.OF WATER/OIL DISTR	
11.0-12.5	NOT APPLICABLE	NOT AVAILABLE	



MATERIAL SAFETY DATA SHEET

MATERIAL REFERENCE NO: 742100

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 GEAR INCLUDING SELF-			
CONTAINED BREATHING APPARATUS.			
FLASH POINT (C) AND METHOD: NONE			
HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF CARBON, NITROGEN AND SODIUM			
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 AVAILABLE			

SECTION V - REACTIVITY DATA

CHEMICAL STABILITY: STABLE			
IF NO, UNDER WHICH CONDITIONS:			
INCOMPATIBILITY TO OTHER SUBSTANCES: YES			
IF SO, WHICH ONES: ACIDS, OXIDIZING AGENTS.			
REACTIVITY AND UNDER WHAT CONDITIONS: NOT ESTABLISHED			
HAZARDOUS POLYMERIZATION WILL NOT OCCUR.			
HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF CARBON AND NITROGEN,			
AMMONIA.			

SECTION VI - HEALTH HAZARD DATA

ROUTE OF ENTRY:			
SKIN CONTACT: YES SKIN ABSORPTION: YES EYE CONTACT: YES			
INHALATION: YES INGESTION: YES			



MATERIAL SAFETY DATA SHEET

MATERIAL REFERENCE NO: 742100

|EFFECTS OF ACUTE EXPOSURE TO MATERIAL: |
|EYES-MAY CAUSE IRRITATION. |
|SKIN-MAY CAUSE IRRITATION. |
|INHALATION-MAY CAUSE IRRITATION OF MOUTH, THROAT AND LARNYX. |
|EXCESSIVE MIST INHALATION MAY CAUSE LUNG DAMAGE WHICH COULD RESULT |
|IN CHEMICAL PNEUMONIA. |
|INGESTION-OF LARGE AMOUNTS MAY RESULT IN GASTRO-INTESTINAL |
|IRRITATION. |
|

|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| LOW |

|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: NONE FOR NORMAL USE |
| 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 RECOMMEDED PROTECTIVE EQUIPMENT. |
|CONTAIN SPILL. PROVIDE ADEQUATE VENTILATION. TRANSFER TO SUITABLE |
|CONTAINER FOR RECLAIM OR DISPOSAL. ABSORB REMAINING MATERIAL ONTO |
|INERT ABSORBANT AND SCOOP INTO DISPOSAL CONTAINER. FLUSH RESIDUAL |
|WITH VOLUMES OF WATER |

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



MATERIAL SAFETY DATA SHEET

MATERIAL REFERENCE NO: 742100

SECTION VIII - FIRST AID MEASURES

| PROCEDURES: |
| EYE CONTACT-FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST AT |
| LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION |
| IF IRRITATION PERSISTS. |
| SKIN CONTACT: FLUSH THOROUGHLY WITH RUNNING WATER FOR AT LEAST 15 |
| MINUTES. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION. LAUNDRER |
| CONTAMINATED CLOTHING BEFORE REUSE. |
| INHALATION-REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE |
| OXYGEN AND GET IMMEDIATE MEDICAL ATTENTION. |
| INGESTION: DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. DRINK |
| MILK OR 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 AND SKIN. |
| WASH THOROUGHLY AFTER HANDLING. |
| |
| STORAGE REQUIREMENTS: |
| STORE IN A COOL DRY PLACE. KEEP CONTAINERS CLOSED WHEN NOT IN USE. |
| KEEP FROM FREEZING. |
| |
| SPECIAL SHIPPING INFORMATION: NONE |

SECTION X - HAZARD RATING INFORMATION

| FLAMMABILITY | REACTIVITY | HEALTH |
| 0 | 0 | 1 |

SECTION XI - PREPARATION DATE OF MSDS

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

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.