



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: 724400

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: HIGH TEST POLYMER 244	
CHEMICAL NAME: NOT APPLICABLE	CHEMICAL FAMILY: ALKALINE BLEND
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: NOT APPLICABLE
SYNONYMS: NONE	
MATERIAL USE: SCALE AND CORROSION CONTROL	

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. % CONC.	TLV PPM	C.A.S. NUMBERS	LD 50 ORAL, RAT
2-PHOSPHONO-1,2,4-BUTANE	1.0-5.0	NO DATA	37971-36-1	>2000 MG/KG
BUTANETRI CARBOXYLIC ACID				
MALEIC ANHYDRIDE/ACRYLIC	1.0-5.0	NO DATA	13221-69-5	NO DATA
ACID COPOLYMER				
POLYMALEIC ACID	1.0-5.0	NO DATA	26099-09-2	NO DATA
TRISODIUM PHOSPHATE	1.0-5.0	NO DATA	10101-89-0	7400 MG/KG
SODIUM TOLYTRIAZOLE	1.0-5.0	NO DATA	64665-57-2	1980 MG/KG
SODIUM HYDROXIDE	1.0-5.0	2	1310-73-2	500 MG/KG
				LDLo (RBT)

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID		
ODOUR AND APPEARANCE: STRAW-AMBER COLOUR; SLIGHT ODOUR.		
ODOUR THRESHOLD (PPM)	SPECIFIC GRAVITY	VAPOUR PRESSURE (MM)
NOT AVAILABLE	1.14	NOT AVAILABLE
VAPOUR DENSITY (AIR=1)	EVAPORATION RATE	SOLUBILITY IN WATER
NOT AVAILABLE	(WATER = 1) < 1	(20°C) COMPLETE
BOILING POINT (C)	FREEZING POINT (C)	% VOLATILE (BY WEIGHT)
NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
pH (100% SOLUTION)	DENSITY (G/ML)	COEF.OF WATER/OIL DISTR
11.0-12.0	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: CHEMICAL FOAM, CARBON DIOXIDE, WATER FOG			
SPECIAL PROCEDURES: WEAR FULL PROTECTIVE GEAR INCLUDING SELF-			
CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH			
WATER SPRAY.			
FLASH POINT (C) AND METHOD: NON FLAMMABLE (TCC)			
HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF CARBON, PHOSPHOROUS,			
NITROGEN, TRACE AMOUNTS OF PHOSPHORIC ACID, ACRYLIC MONOMERS AND			
OTHER UNIDENTIFIED ORGANIC BY-PRODUCTS.			
UPPER EXPLOSION LIMIT LOWER EXPLOSION LIMIT AUTOIGNITION TEMP (C)			
NOT AVAILABLE NOT AVAILABLE NOT APPLICABLE			
EXPLOSION DATA SENSITIVITY RATE OF BURNING EXPLOSIVE POWER			
TO CHEMICAL IMPACT			
NOT AVAILABLE NOT APPLICABLE NOT APPLICABLE			
SENSITIVITY TO STATIC DISCHARGE: NOT AVAILABLE			

SECTION V - REACTIVITY DATA

CHEMICAL STABILITY: NORMALLY STABLE			
IF NO, UNDER WHICH CONDITIONS: HIGH TEMPERATURES			
INCOMPATIBILITY TO OTHER SUBSTANCES: YES			
IF SO, WHICH ONES: AVOID CONTACT WITH STRONG ACIDS, OXIDIZERS, MILD			
STEEL, ALUMINUM, COPPER, ZINC, NITRITES, SULPHITES.			
REACTIVITY AND UNDER WHAT CONDITIONS: NOT ESTABLISHED.			
HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION CAN LIBERATE			
OXIDES OF CARBON, PHOSPHOROUS, NITROGEN, TRACE AMOUNTS OF PHOSPHORIC			
ACID, ACRYLIC MONOMERS, AND OTHER UNIDENTIFIED ORGANIC BY-PRODUCTS.			

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: |
| EYES-CONTACT CAN CAUSE IRRITATION. |
| SKIN-CONTACT MAY CAUSE IRRITATION. |
| INHALATION-EXCESSIVE INHALATION OF MIST OR VAPOURS MAY CAUSE |
| IRRITATION OF RESPIRATORY TRACT. |
| INGESTION-MAY CAUSE IRRITATION OF GASTROINTESTINAL TRACT, NAUSEA, |
| VOMITING. |
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| EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: |
| EYES-PROLONGED OR REPEATED CONTACT MAY CAUSE EYE DAMAGE. |
| SKIN-REPEATED OR PROLONGED CONTACT MAY CAUSE DRYING OF SKIN LEADING |
| TO DERMATITIS. |
| |
| |

| LD 50 OF MATL. | LC 50 OF MATL. | EXPOSURE LIMIT(S) | IRRITANCY OF MATL |
| NOT AVAILABLE | NOT AVAILABLE | NOT AVAILABLE | SKIN AND EYE |

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

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

SECTION VII - PREVENTIVE MEASURES

| PERSONAL PROTECTIVE EQUIPMENT: |

| GLOVES: RUBBER OR VINYL |
| RESPIRATORY: NONE FOR NORMAL USE |
| EYE: FACE SHIELD OR SAFETY GOGGLES |
| FOOTWEAR: IMPERVIOUS |
| CLOTHING: IMPERVIOUS |
| OTHER: EYE WASH AND SAFETY SHOWER |
| ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): LOCAL |
| AS NEEDED TO CONTROL FUMES. |

| LEAK AND SPILL PROCEDURE: STOP LEAK AND CONTAIN SPILL. TRANSFER TO |
| SUITABLE CONTAINER FOR RECLAIM OR DISPOSAL. ABSORB REMAINING |
| MATERIAL ONTO INERT ABSORBANT AND SCOOP INTO DISPOSAL CONTAINER. |
| 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 AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. IF PAIN OR IRRITATION PERSIST, SEEK MEDICAL ASSISTANCE.
SKIN-REMOVE CONTAMINATED CLOTHING AND FLUSH AFFECTED AREA WITH WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSIST, SEEK MEDICAL ASSISTANCE. LAUNDER CLOTHING BEFORE REUSE.
INHALATION-MOVE VICTIM TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN AND GET MEDICAL ATTENTION.
INGESTION-IF SWALLOWED-DO NOT INDUCE VOMITING. GIVE WATER, VINEGAR AND WATER OR FRUIT JUICE. 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

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 WELL VENTILATED AREA. KEEP FROM FREEZING. KEEP CONTAINER CLOSED WHEN NOT IN USE.

SPECIAL SHIPPING INFORMATION: HEATED

SECTION X - HMIS 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	REPLACES: APRIL 28, 2006

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