



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: 734400

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: HIGH TEST POLYMER 344	
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-PHOSPHONOBUTANE-1,2,4- TRICARBOXILIC ACID	1.0-5.0	NO DATA	37971-36-1	>2000 MG/KG
MALEIC ANHYDRIDE/ACRYLIC ACID COPOLYMER	1.0-5.0	NO DATA	113221-69-5	NO DATA
POLYMALEIC ACID	1.0-5.0	NO DATA	26099-09-2	NO DATA
SODIUM MOLYBDATE	1.0-5.0	5 MG/M3	10102-40-6	4233 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) NOT AVAILABLE	SPECIFIC GRAVITY 1.048	VAPOUR PRESSURE (MM) NOT AVAILABLE
VAPOUR DENSITY (AIR=1) NOT AVAILABLE	EVAPORATION RATE (WATER = 1) < 1	SOLUBILITY IN WATER (20°C) COMPLETE
BOILING POINT (C) NOT AVAILABLE	FREEZING POINT (C) NOT AVAILABLE	% VOLATILE (BY WEIGHT) NOT AVAILABLE
pH (100% SOLUTION) 11.0-12.0	DENSITY (G/ML) NOT APPLICABLE	COEF.OF WATER/OIL DISTR NOT AVAILABLE



MATERIAL SAFETY DATA SHEET

MATERIAL REFERENCE NO: 734400

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.			
FLASH POINT (C) AND METHOD: NON FLAMMABLE (TCC)			
HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF CARBON, PHOSPHOROUS,			
NITROGEN, TRACE AMOUNTS OF PHOSPHORIC ACID, TOXIC FUMES,			
UNIDENTIFIED ORGANIC COMPOUNDS.			
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, TOXIC FUMES, UNIDENTIFIED ORGANIC COMPOUNDS.			

SECTION VI - HEALTH HAZARD DATA

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



MATERIAL SAFETY DATA SHEET

MATERIAL REFERENCE NO: 734400

EFFECTS OF ACUTE EXPOSURE TO MATERIAL:
EYES-CONTACT CAN CAUSE MODERATE TO SEVERE IRRITATION, POSSIBLE BURNS
SKIN-CONTACT MAY CAUSE MILD TO MODERATE IRRITATION.
INHALATION-EXCESSIVE INHALATION OF MIST OR VAPOURS MAY CAUSE
IRRITATION OF RESPIRATORY TRACT.
INGESTION-MAY CAUSE IRRITATION OF GASTROINTESTINAL TRACT, NAUSEA,
VOMITING.

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: NIOSH APPROVED RESPIRATOR IN CONFINED OR POORLY
VENTILATED AREAS.
EYE: FACE SHIELD OR SAFETY GOGGLES
FOOTWEAR: IMPERVIOUS
CLOTHING: IMPERVIOUS
OTHER: EYE WASH AND SAFETY SHOWER
ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): PROVIDE
LOCAL VENTILATION TO MAINTAIN AIRBORN CONCENTRATIONS WITHIN
RECOMMENDED LIMITS.

LEAK AND SPILL PROCEDURE: WEAR RECOMMENDED PROTECTIVE EQUIPMENT.
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.



MATERIAL SAFETY DATA SHEET

MATERIAL REFERENCE NO: 734400

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. GET MEDICAL ATTENTION. |
| INGESTION-DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. NEVER |
| GIVE ANYTHING BY MOUTH IF PERSON IS UNCONSCIOUS OR CONVULSING. 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, SKIN AND |
CLOTHING. WASH THOROUGHLY AFTER HANDLING.
STORAGE REQUIREMENTS: STORE IN A COOL, DRY WELL VENTILATED AREA IN
ORIGINAL CONTAINER. 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 |
| REVISED: OCTOBER 10, 2009 | REPLACES: APRIL 28, 2006 |

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.