



# 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: 716300

## SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: HIGH TEST TERPOLYMER 163	
CHEMICAL NAME : NOT APPLICABLE	CHEMICAL FAMILY : BLENDED 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-BUTANETRI CARBOXYLIC ACID	7.0-15.0	NO DATA	37971-36-1	>6500 MG/KG
SULFONATED ACRYLIC TERPOLYMER	5.0-10.0	NO DATA	113221-69-5	3870 MG/KG
PHOSPHINATED ACRYLIC CARBOXYLATED POLYMER	1.0-5.0	NO DATA	71050-62-9	>3,000 MG/KG
2PROPENOATE (ACRYLATE) HOMOPOLYMER	7.0-15.0	NO DATA	9003-04-07	NO DATA
SODIUM HYDROXIDE	7.0-13.0	2	1310-73-2	143 MG/KG

## SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID		
ODOUR AND APPEARANCE: STRAW-AMBER COLOUR; SLIGHT ODOUR.		
ODOUR THRESHOLD (PPM)   NOT AVAILABLE	SPECIFIC GRAVITY   1.16	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)   >78
pH (10.0% SOLUTION)   12.5-13.5	DENSITY (G/ML)   NOT APPLICABLE	COEF.OF WATER/OIL DISTR   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.			
FLASH POINT (C) AND METHOD: MINIMUM 100 (TCC)			
HAZARDOUS COMBUSTION PRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE,			
SMALL AMOUNT OF PHOSPHORIC ACID AND OTHER UNIDENTIFIED BY-PRODUCTS			
ACRYLIC MONOMERS, OXIDES OF NITROGEN.			
UPPER EXPLOSION LIMIT			
NOT APPLICABLE			
LOWER EXPLOSION LIMIT			
NOT APPLICABLE			
AUTOIGNITION TEMP(C)			
NOT APPLICABLE			
EXPLOSION DATA SENSITIVITY			
TO CHEMICAL IMPACT			
NOT AVAILABLE			
RATE OF BURNING			
NOT APPLICABLE			
EXPLOSIVE POWER			
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.			
REACTIVITY AND UNDER WHAT CONDITIONS: NOT ESTABLISHED.			
HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION CAN LIBERATE			
CARBON DIOXIDE, CARBON MONOXIDE, SMALL AMOUNT OF PHOSPHORIC ACID AND			
OTHER UNIDENTIFIED BY-PRODUCTS, ACRYLIC MONOMERS, OXIDES OF NITROGEN			

## 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 MAY CAUSE MODERATE TO SEVERE IRRITATION.  
SKIN-CONTACT MAY CAUSE MODERATE IRRITATION.  
INHALATION-EXCESSIVE INHALATION OF MIST OR VAPOURS MAY CAUSE IRRITATION OF RESPIRATORY TRACT.  
INGESTION-INGESTION OF SMALL AMOUNTS CAN CAUSE IRRITATION OF GASTROINTESTINAL TRACT, NAUSEA, VOMITING. INGESTION OF LARGE AMOUNTS MAY BE HARMFUL.

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 15 MINUTES. IF PAIN OR IRRITATION PERSIST, SEEK MEDICAL ASSISTANCE.  
SKIN-REMOVE CONTAMINATED CLOTHING AND FLUSH AFFECTED AREA WITH WATER FOR 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 IF SYMPTOMS PERSIST.  
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
CORROSIVE LIQUIDS, N.O.S. (SODIUM HYDROXIDE)	8	1760	III

HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH EYES AND SKIN.  
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  
REVIEWED: MARCH 11, 2004

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