



# 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: E

MATERIAL REFERENCE NO: 550300

## SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KT 503	
CHEMICAL NAME: MIXTURE	CHEMICAL FAMILY: ALKALINE BLEND
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: NOT APPLICABLE
SYNONYMS: NONE	
MATERIAL USE: LIQUID pH ADJUSTER & PASSIVATOR	

## SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS   INGREDIENTS	APPROX.   % CONCENT.	TLV   MG/M3	C.A.S.   NUMBERS	LD 50   ORAL (RAT)
SODIUM HYDROXIDE	10.0-30.0	2	1310-73-2	500 MG/KG
				LDLo (ORAL RBT)
SODIUM TRIPOLY-	1.0-5.0	NO DATA	7758-29-4	3100 MG/KG
PHOSPHATE				

## SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID		
ODOUR AND APPEARANCE: CLEAR, CLOURLESS LIQUID; LOW ODOUR.		
ODOUR THRESHOLD (PPM)	SPECIFIC GRAVITY	VAPOUR PRESSURE
NOT AVAILABLE	1.15	NOT APPLICABLE
VAPOUR DENSITY (AIR=1)	EVAPORATION RATE	SOLUBILITY IN WATER
NOT APPLICABLE	(WATER=1) <1	SOLUBLE
BOILING POINT (C)	MELTING POINT (C)	% VOLATILE (BY VOLUME)
NOT AVAILABLE	NOT AVAILABLE	> 75
pH (10% SOLUTION)	DENSITY (G/ML)	COEF.OF WATER/OIL DISTR
VERY STRONG ALKALI	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: AS APPROPRIATE FOR SURROUNDING MATERIALS			
SPECIAL PROCEDURES: CONTACT WITH METALS SUCH AS ALUMINUM, TIN AND			
ZINC GENERATES HYDROGEN WHICH IS FLAMMABLE AND EXPLOSIVE WHEN			
IGNITED.			
FLASH POINT (C) AND METHOD: NONE			
HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF SODIUM AND PHOSPHOROUS			
UPPER EXPLOSION LIMIT	LOWER EXPLOSION LIMIT	AUTOIGNITION TEMP (C)	
NONE	NONE	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: STABLE		
IF NO, UNDER WHICH CONDITIONS:		
INCOMPATIBILITY TO OTHER SUBSTANCES: YES		
IF SO, WHICH ONES: STRONG ACIDS, STRONG OXIDIZING AGENTS, REACTIVE		
METALS, REDUCING AGENTS, SOME NITRO COMPOUNDS.		
REACTIVITY AND UNDER WHAT CONDITIONS:		
REACTS WITH STRONG ACIDS TO PRODUCE EXOTHERMIC REACTION, BOILING AND		
SPLATTERING. CAN PRODUCE FLAMMABLE HYDROGEN WHEN IN CONTACT WITH		
METALS SUCH AS ALUMINUM, BRASS, TIN, ZINC. CONTACT WITH NITROMETHANE		
AND OTHER NITRO COMPOUNDS CAUSES FORMATION OF SHOCK-SENSITIVE SALTS.		
CAN REACT WITH REDUCING AGENTS TO PRODUCE CARBON MONOXIDE.		
HAZARDOUS DECOMPOSITION PRODUCTS: NONE		

## 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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| EFFECTS OF ACUTE EXPOSURE TO MATERIAL: |  
| EYES-EXTREMELY CORROSIVE, CAUSES CORNEAL SCARRING AND CLOUDING. |  
| GLAUCOMA, CATARACTS AND PERMANENT BLINDNESS MAY OCCUR. DAMAGE MAY |  
| BE DELAYED AND NOT INITIALLY APPARENT. DUST MAY IRRITATE THE EYES. |  
| SKIN-CONTACT CAN CAUSE DEEP AND SEVERE SKIN BURNS, ULCERATION AND |  
| SCARRING. PAINFUL TISSUE DAMAGE MAY RESULT AND THE SENSATION OF |  
| PAIN MAY BE DELAYED. |  
| INHALATION-BREATHING OF MISTS MAY CAUSE SEVERE IRRITATION OF THE |  
| NOSE, THROAT AND LUNGS. |  
| INGESTION-MAY CAUSE PAIN, VOMITING AND SEVERE BURNS OF MOUTH, THROAT |  
AND EXTENSIVE DAMAGE OR PERFORATION OF THE ESOPHAGUS. MAY BE FATAL.

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:

LD 50 OF MATL.	LC 50 OF MATL.	EXPOSURE LIMIT(S)	IRRITANCY OF MATL
NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	VERY CORROSIVE

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SENSITIZATION OF MATERIAL	SYNERGISTIC MATERIALS
NOT AVAILABLE	NOT AVAILABLE

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

## SECTION VII - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

| GLOVES: RUBBER, NITRILE OR PVC |  
| RESPIRATORY: APPROVED FOR FUMES AND DUSTS UP TO 20mg/m3. AIR |  
| SUPPLIED RESPIRATOR FOR HIGHER CONCENTRATIONS. |  
| EYE: CHEMICAL GOGGLES OR FACE SHIELD |  
| FOOTWEAR: RUBBER BOOTS |  
| CLOTHING: RUBBER APRON |  
| OTHER: EYE WASH AND SAFETY SHOWER |  
| ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): GOOD |  
GENERAL AREA VENTILATION.

| LEAK AND SPILL PROCEDURE: STOP LEAK AND CONTAIN SPILL WITH INERT |  
| MATERIAL (SAND, EARTH ETC.) TRANSFER TO SUITABLE CONTAINER FOR REUSE |  
| OR DISPOSAL. NEUTRALIZE RESIDUAL WITH DILUTE ACETIC ACID. ABSORB |  
| ONTO INERT ABSORBANT AND PLACE IN DISPOSAL CONTAINER. FLUSH RESIDUAL |  
WITH VOLUMES OF WATER.

| WASTE DISPOSAL: DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, PROVINCIAL |  
| AND FEDERAL REGULATIONS. |  
| SODIUM HYDROXIDE IS HARMFUL TO AQUATIC LIFE IN HIGH CONCENTRATIONS. |  
| MAY BE DANGEROUS IF IT ENTERS WATER UNTAKES. FISH TOXICITY CRITICAL |  
CONCENTRATION = 20 MG/L.



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## SECTION VIII - FIRST AID MEASURES

PROCEDURES:  
EYES-IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR AT LEAST 20 MINUTES WHILE HOLDING EYELIDS OPEN. ALWAYS OBTAIN IMMEDIATE MEDICAL ATTENTION.  
SKIN-IMMEDIATELY REMOVE CONTAMINATED CLOTHING AND BEGIN FLUSHING AFFECTED AREA WITH RUNNING WATER FOR AT LEAST 20 MINUTES. OBTAIN MEDICAL ATTENTION IMMEDIATELY. LAUNDER CLOTHING BEFORE REUSE.  
INHALATION-REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT GIVE OXYGEN. IF NOT BREATHING ADMINISTER ARTIFICIAL RESPIRATION AND THEN GIVE OXYGEN. OBTAIN MEDICAL ATTENTION.  
INGESTION-UNLESS UNCONSCIOUS OR CONVULSING GIVE 1-2 GLASSES OF MILK OR WATER TO DILUTE. DO NOT INDUCE VOMITING. OBTAIN 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
CORROSIVE LIQUIDS, NOS (Sodium Hydroxide Solution)	8	1824	II

HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH EYES, SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING. WHEN DILUTING, ALWAYS ADD PRODUCT TO WATER TO AVOID POSSIBLE BOILING AND SPLATTERING.

STORAGE REQUIREMENTS: STORE BETWEEN 15-50(C). PROTECT CONTAINER FROM DAMAGE. KEEP FROM FREEZING.

SPECIAL SHIPPING INFORMATION: NONE

## SECTION X - HMIS HAZARD RATING INFORMATION

FLAMMABILITY	REACTIVITY	HEALTH
0	2	3

## SECTION XI - PREPARATION DATE OF MSDS

PREPARED BY: TECHNICAL DEPARTMENT	TELEPHONE # (905) 456-9444
REVISED: OCTOBER 10, 2009	REPLACES: NOVEMBER 21, 2003

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