

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- PHOSPHATE	1.0-5.0	NO DATA	7758-29-4	3100 MG/KG

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID		
ODOUR AND APPEARANCE: CLEAR, CLOURLESS LIQUID; LOW ODOUR.		
ODOUR THRESHOLD (PPM) NOT AVAILABLE	SPECIFIC GRAVITY 1.15	VAPOUR PRESSURE NOT APPLICABLE
VAPOUR DENSITY (AIR=1) NOT APPLICABLE	EVAPORATION RATE (WATER=1) <1	SOLUBILITY IN WATER SOLUBLE
BOILING POINT (C) NOT AVAILABLE	MELTING POINT (C) NOT AVAILABLE	% VOLATILE (BY VOLUME) > 75
pH (10% SOLUTION) VERY STRONG ALKALI	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: 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 |

|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, 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

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