



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: 550400

SECTION I - MATERIAL IDENTIFICATION AND USE

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| MATERIAL NAME/I.D.: KEMTREET SB 504 |
| CHEMICAL NAME: CAUSTIC SOLUTION CHEMICAL FAMILY: ALKALIES |
| CHEMICAL FORMULA: MIXTURE MOLECULAR WEIGHT: NOT APPLICABLE |
| SYNONYMS: NONE |
| MATERIAL USE: LIQUID pH ADJUSTER |

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

| HAZARDOUS INGREDIENTS | APPROX. % CONCENT. | TLV MG/M3 | C.A.S. NUMBERS | LDLo ORAL RABBIT |
|----------------------------|-------------------------|----------------|---------------------|-----------------------|
| SODIUM HYDROXIDE | 10.0-30.0 | 2 | 1310-73-2 | 500 MG/KG |
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SECTION III - PHYSICAL DATA FOR MATERIAL

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| PHYSICAL STATE: LIQUID |
| ODOUR AND APPEARANCE: CLEAR, COLOURLESS LIQUID; LOW ODOUR. |
| ODOUR THRESHOLD (PPM) SPECIFIC GRAVITY VAPOUR PRESSURE |
| NOT AVAILABLE 1.103 NOT APPLICABLE |
| VAPOUR DENSITY (AIR=1) EVAPORATION RATE SOLUBILITY IN WATER |
| NOT APPLICABLE (WATER=1) <1 SOLUBLE |
| BOILING POINT (C) FREEZING POINT (C) % VOLATILE (BY WEIGHT) |
| NOT AVAILABLE NOT AVAILABLE > 80 |
| pH (1.0% SOLUTION) DENSITY (G/ML) COEF.OF WATER/OIL DISTR |
| 12.0-13.0 NOT AVAILABLE 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 FOR SURROUNDING MATERIALS

| SPECIAL PROCEDURES: WEAR FULL PROTECTIVE EQUIPMENT INCLUDING SELF-
| CONTAINED BREATHING APPARATUS.
| NOTE: DO NOT USE CO₂. THIS WILL REACT EXOTHERMICALLY WITH SODIUM
| HYDROXIDE.

| FLASH POINT (C) AND METHOD: NONE

| HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF SODIUM.

| 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 AVAILABLE | NOT AVAILABLE

| SENSITIVITY TO STATIC DISCHARGE: NOT AVAILABLE

SECTION V - REACTIVITY DATA

| CHEMICAL STABILITY: STABLE
| IF NO, UNDER WHICH CONDITIONS:
| HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

| INCOMPATIBILITY TO OTHER SUBSTANCES: YES
| IF SO, WHICH ONES: ACIDS, ACID ANHYDRIDES, OXIDIZABLE MATERIALS.

| REACTIVITY AND UNDER WHAT CONDITIONS: CONTACT WITH ACIDS WILL CAUSE
| VIOLENT REACTION. CONTACT WITH METALS SUCH AS ALUMINUM, TIN AND ZINC
| CAUSES FORMATION OF FLAMMABLE HYDROGEN GAS. ALSO REACTS WITH BRONZE
| AND BRASS. GENERATES HEAT WHEN ADDED TO WATER.

| 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-MIST 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:
|NOT KNOWN

SECTION VII - PREVENTIVE MEASURES

|PERSONAL PROTECTIVE EQUIPMENT:

| GLOVES: RUBBER, NITRILE OR PVC
|RESPIRATORY: NIOSH APPROVED FOR FUMES AND MISTS 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): PROVIDE

|LOCAL OR MECHANICAL VENTILATION IF AIRBOIN/ARON NT()TJ 306.591 0 T ()-3.57193()-3.5



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SECTION VIII - FIRST AID MEASURES

| PROCEDURES:

|EYES—IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR AT LEAST 20
|MINUTES. OBTAIN IMMEDIATE MEDICAL ATTENTION.

|SKIN- REMOVE CONTAMINATED CLOTHING. FLUSH AFFECTED AREA WITH RUNNING
|WATER FOR AT LEAST 20 MINUTES. OBTAIN MEDICAL ATTENTION IMMEDIATELY.

| INHALATION-REMOVE TO FRESH AIR. IF NOT BREATHING, ADMINISTER
| ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT GET IMMEDIATE
| MEDICAL ATTENTION.

| INGESTION-GIVE 2 GLASSES OF WATER. NEVER GIVE ANYTHING BY MOUTH IF
| PERSON IS UNCONSCIOUS OR CONVULSING 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. | PG |
| SODIUM HYDROXIDE SOLUTION | 8 | 1824 | II |

|HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH EYES, SKIN AND
|CLOTHING. HANDLE CAREFULLY. WASH THOROUGHLY AFTER HANDLING. ADD
|CAUSTIC SOLUTION TO WATER TO AVOID BOILING AND SPLATTERING.
|SOLUTIONS ARE VERY SLIPPERY ON FLOORS.

| STORAGE REQUIREMENTS: STORE BETWEEN 15-50°C. PROTECT CONTAINER FROM
| DAMAGE. DO NOT STORE NEAR INCOMPATIBLE MATERIALS.

| SPECIAL SHIPPING INFORMATION: KEEP FROM FREEZING.

SECTION X - HMIS HAZARD RATING INFORMATION

| FLAMMABILITY | REACTIVITY | HEALTH |
|--------------|------------|--------|
| 0 | 1 | 3 |

SECTION XI - PREPARATION DATE OF MSDS

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