



MATERIAL SAFETY DATA SHEET

KEM CANADA MFG.
4 BLAIR DRIVE
BRAMPTON, ONTARIO
L6T 2H5
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"USE IN CASE OF CHEMICAL EMERGENCY ONLY"

W.H.M.I.S. CLASSIFICATION: E

MATERIAL REFERENCE NO: 784100

SECTION I - MATERIAL IDENTIFICATION AND USE

| MATERIAL NAME/I.D.: KEMTREET 841

| 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

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|1.12|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 | > 70 |

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 FOR SURROUNDING MATERIALS

|SPECIAL PROCEDURES: WEAR FULL PROTECTIVE EQUIPMENT INCLUDING SELF-
|CONTAINED BREATHING APPARATUS. RESIDUAL MATERIAL WILL RESULT IN
|SLIPPERY SURFACES.

|FLASH POINT (C) AND METHOD: NONE

|HAZARDOUS COMBUSTION PRODUCTS: NONE

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: ACIDS, FLAMMABLE LIQUIDS, ORGANIC HALOGEN
|COMPOUNDS, REACTIVE METALS, NITROMETHANE AND OTHER SIMILAR NITRO
|COMPOUNDS.

|REACTIVITY AND UNDER WHAT CONDITIONS: CONTACT WITH ACIDS, FLAMMABLE
|LIQUIDS AND ORGANIC HALOGEN COMPOUNDS MAY CAUSE FIRE AND EXPLOSIONS.
|CONTACT WITH METALS SUCH AS ALUMINUM, TIN AND ZINC CAUSES FORMATION
|OF FLAMMABLE HYDROGEN GAS. CONTACT WITH NITROMETHANE AND OTHER
|SIMILAR NITRO COMPOUNDS CAUSES FORMATION OF SHOCK-SENSITIVE SALTS.
|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: 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): GOOD
| GENERAL AREA VENTILATION.

| LEAK AND SPILL PROCEDURE: STOP AND CONTAIN LEAK OR SPILL. VENTILATE
| AREA. PROTECTIVE EQUIPMENT MUST BE WORN. DYKE WITH INERT MATERIAL
| (SAND, EARTH ETC.). TRANSFER TO SUITABLE CONTAINER FOR REUSE OR
| DISPOSAL. ABSORB REMAINING MATERIAL ONTO INERT ABSORBENT AND SCOOP
| INTO DISPOSAL CONTAINER. CAREFULLY NEUTRALIZE RESIDUE WITH DILUTE
| HYDROCHLORIC ACID AND FLUSH WITH VOLUMES OF WATER. KEEP OUT OF
| WATERWAYS.

| WASTE DISPOSAL: DISPOSE OF IN ACCORDANCE WITH LOCAL, PROVINCIAL AND
| FEDERAL REGULATIONS.



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SECTION VIII - FIRST AID MEASURES

PROCEDURES:

|EYES-FLUSH EYES WITH RUNNING WATER FOR AT LEAST 20 MINUTES HOLDING
|EYELIDS OPEN. ALWAYS 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 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.

|IMMEDIATELY.
|EMERGENCY MEDICAL CARE-EYE BURNS OFTEN GO THROUGH THREE STAGES-AN
|ACUTE STAGE WHEN EARLY DAMAGE IS EXPERIENCED, A REPARABLE STAGE WHEN
|EYE BEGINS TO HEAL AND A RELAPSE STAGE. FOLLOW UP CARE IS ESSENTIAL.

| 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	2	3

SECTION XI - PREPARATION DATE OF MSDS

DISCLAIMER:

DISCLAIMER:
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