



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: D2A, D2B, E

MATERIAL REFERENCE NO: 724000

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KEMTREET 240
CHEMICAL NAME: NOT APPLICABLE CHEMICAL FAMILY: ALKALINE BLEND
CHEMICAL FORMULA: MIXTURE MOLECULAR WEIGHT: NOT APPLICABLE
SYNONYMS: NONE
MATERIAL USE: HEATING/COOLING SYSTEM CORROSION INHIBITOR

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. % CONCENT.	TLV MG/M3	C.A.S. NUMBERS	LD 50 ORAL
CAUSTIC SODA	3.0-7.0	2	1310-73-2	500 MG/KG
				(ORAL LD ₅₀ RBT)
SODIUM SULPHITE	1.0-5.0	NO DATA	7757-83-7	820 MG/KG
				(ORAL, MOUSE)

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID
ODOUR AND APPEARANCE: PALE YELLOW COLOUR; MILD ACRID ODOUR.
ODOUR THRESHOLD (PPM) SPECIFIC GRAVITY VAPOUR PRESSURE (MM)
NOT AVAILABLE 1.115 NOT AVAILABLE
VAPOUR DENSITY (AIR=1) EVAPORATION RATE SOLUBILITY IN WATER
>1 (WATER=1) <1 (20 ° C) COMPLETE
BOILING POINT (C) FREEZING POINT (C) % VOLATILE (BY WEIGHT)
< 100 NOT AVAILABLE >85
pH (10% SOLUTION) DENSITY (G/ML) COEF.OF WATER/OIL DISTR
12.5-13.5 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: WEAR FULL PROTECTIVE EQUIPMENT INCLUDING SELF-
| CONTAINED BREATHING APPARATUS.

|

| FLASH POINT (C) AND METHOD: NONE (TCC)

| HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF CARBON, SULPHUR DIOXIDE GAS
| SODIUM SULPHIDE RESIDUE, TOXIC ORGANIC VAPOURS, AMMONIA, OXIDES OF
| NITROGEN, OXIDES OF PHOSPHOROUS AND SODIUM.

| UPPER EXPLOSION LIMIT | LOWER EXPLOSION LIMIT | AUTOIGNITION TEMP (C)
| NOT APPLICABLE | NOT APPLICABLE | NOT AVAILABLE

| EXPLOSION DATA SENSITIVITY | RATE OF BURNING | EXPLOSIVE POWER
| TO CHEMICAL IMPACT | |
| NOT APPLICABLE | 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, OXIDIZING AGENTS.
|

| REACTIVITY AND UNDER WHAT CONDITIONS: NO DATA AVAILABLE
| HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

| HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION CAN EVOLVE
| OXIDES OF CARBON, SULPHUR DIOXIDE GAS SODIUM SULPHIDE RESIDUE, TOXIC
| ORGANIC VAPOURS, AMMONIA, OXIDES OF NITROGEN, OXIDES OF PHOSPHOROUS
| AND SODIUM.

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-CONTACT MAY CAUSE SEVERE IRRITATION, POSSIBLE BURNS, INTENSE			
WATERING CONJUNCTIVITIS. MAY CAUSE EYE DAMAGE.			
SKIN-CONTACT MAY CAUSE MODERATE IRRITATION, ITCHING, TINGLING			
SENSATION.			
INHALATION-MAY CAUSE IRRITATION OF NOSE, EYES AND THROAT, COUGHING.			
INGESTION-MAY CAUSE MODERATE TO SEVERE IRRITATION AND POSSIBLE BURNS			
OF THE MOUTH AND THROAT, PAIN IN SWALLOWING, GASTRO-INTESTINAL			
IRRITATION, STOMACH CRAMPS, NAUSEA AND VOMITING.			
EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:			
EYES-CONTACT MAY CAUSE BURNS AND IRREPARABLE DAMAGE TO MUCOUS			
MEMBRANES, ULCERATION OF EYES, LOSS OF SIGHT.			
-LD 50 OF MATL.	-LC 50 OF MATL.	-EXPOSURE LIMIT(S)	IRRITANCY OF MATL
NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	CORROSIVE
SENSITIZATION OF MATERIAL			
NOT AVAILABLE		-SYNERGISTIC MATERIALS	
NOT AVAILABLE			
CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY:			
NONE KNOWN			

SECTION VII - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:
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SECTION VIII - FIRST AID MEASURES

| PROCEDURES:

| EYES-IMMEDIATELY FLUSH WITH RUNNING WATER FOR AT LEAST 15 MINUTES
| WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.
| SKIN-REMOVE CONTAMINATED CLOTHING AND FLUSH AFFECTED AREA WITH
| RUNNING WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IF
| IRRITATION PERSISTS. LAUNDER CLOTHING BEFORE REUSE.
| INHALATION-REMOVE VICTIM TO FRESH AIR. IF BREATHING IS DIFFICULT,
| GIVE OXYGEN AND GET MEDICAL ATTENTION.
| INGESTION-DO NOT INDUCE VOMITING. NEVER GIVE FLUIDS BY MOUTH TO AN
| UNCONSCIOUS OR CONVULSING PERSON. GET IMMEDIATE MEDICAL ASSISTANCE.
|

| SOURCES USED: RAW MATERIAL SUPPLIER'S MATERIAL SAFETY DATA SHEETS

| ADDITIONAL INFORMATION: NONE

SECTION IX - TDG SHIPPING INFORMATION

SHIPPING NAME	CLASS	UN NO.	PG
CORROSIVE LIQUID, N.O.S.	8	1760	III
(SODIUM HYDROXIDE)			

| HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH EYES, SKIN AND
| CLOTHING. WASH THOROUGHLY AFTER HANDLING.
|

| STORAGE REQUIREMENTS:

| STORE IN A COOL, DRY, WELL-VENTILATED AREA AWAY FROM INCOMPATIBLE
| MATERIALS. KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP FROM FREEZING

| SPECIAL SHIPPING INFORMATION: NONE

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: OCTOBER 10, 2009

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