



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: D2B, E

MATERIAL REFERENCE NO: 560700

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KEMTREET SB 607	
CHEMICAL NAME: NOT APPLICABLE	CHEMICAL FAMILY: BLENDED PRODUCT
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: NOT APPLICABLE
SYNONYMS: NONE	
MATERIAL USE: STEAM BOILER TREATMENT	

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. % CONCENT.	TLV PPM	C.A.S. NUMBERS	LD 50 ORAL, RAT
SODIUM SULPHITE	1.0-5.0	NO DATA	7757-83-7	820 MG/KG
SODIUM HYDROXIDE	1.0-5.0	2 MG/M3	1310-73-2	500 MG/KG
				LDLo ORAL
				RABBIT
MORPHOLINE	5.0-10.0	20	110-91-8	1050 MG/KG

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID		
ODOUR AND APPEARANCE: CLEAR, AMBER COLOUR; ACRID ODOUR.		
ODOUR THRESHOLD (PPM)	SPECIFIC GRAVITY	VAPOUR PRESSURE (MM)
NOT ESTABLISHED	1.02	NOT ESTABLISHED
VAPOUR DENSITY (AIR=1)	EVAPORATION RATE	SOLUBILITY IN WATER
NOT ESTABLISHED	NOT AVAILABLE	(20°C) COMPLETE
BOILING POINT (C)	FREEZING POINT (C)	% VOLATILE (BY VOLUME)
NOT AVAILABLE	NOT AVAILABLE	>90
pH (100 % 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: COMBUSTIBLE		
IF YES, UNDER WHICH CONDITIONS: HIGH TEMPERATURES, OPEN FLAME		
MEANS OF EXTINCTION: WATER FOG, CARBON DIOXIDE, DRY CHEMICAL		
SPECIAL PROCEDURES: WEAR FULL PROTECTIVE GEAR INCLUDING SELF-		
CONTAINED BREATHING APPARATUS. VAPOURS ARE HEAVIER THAN AIR AND MAY		
TRAVEL TO IGNITION SOURCE AND FLASH BACK.		
FLASH POINT (C) AND METHOD: 46.1 (TCC)		
HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF CARBON, AND NITROGEN,		
AMMONIA, ALDEHYDES, KETONES, IRRITATING VAPOURS.		
UPPER EXPLOSION LIMIT LOWER EXPLOSION LIMIT AUTOIGNITION TEMP (C)		
NOT AVAILABLE NOT AVAILABLE NOT AVAILABLE		
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:		
INCOMPATIBILITY TO OTHER SUBSTANCES: YES		
IF SO, WHICH ONES: AVOID CONTACT WITH STRONG ACIDS, OXIDIZING AGENTS		
REACTIVE METALS AND NITRITES.		
REACTIVITY AND UNDER WHAT CONDITIONS: MORPHOLINE MAY BE EXPLOSIVE IN		
CONTACT WITH OXIDIZING AGENTS.		
HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION CAN GIVE OFF		
OXIDES OF CARBON, AND NITROGEN, AMMONIA, ALDEHYDES, KETONES,		
IRRITATING VAPOURS.		

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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| EYES-LIQUID, VAPOUR OR MIST MAY CAUSE STINGING, BURNING, INTENSE
| WATERING, REDNESS OF CONJUNCTIVA, POSSIBLE BURNS.
| SKIN-CONTACT MAY CAUSE IRRITATION, ITCHING, TINGLING, REDNESS AND
| SWELLING, POSSIBLE BURNS, INFLAMMATION.
| INHALATION-OF MIST MAY CAUSE SEVERE IRRITATION OF RESPIRATORY TRACT,
| NAUSEA, VOMITING, HEADACHE, DIZZINESS.
| INGESTION-MAY CAUSE SEVERE IRRITATION AND POSSIBLE BURNS TO MOUTH,
| THROAT, ESOPHAGUS AND STOMACH. CAN CAUSE NAUSEA, VOMITING, DIARRHEA,
| DIZZINESS, WEAKNESS.

| EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:
| MAY CAUSE ALLERGENIC SENSITIZATION

| LD 50 OF MATL. | LC 50 OF MATL. | EXPOSURE LIMITS | IRRITANCY OF MATL |
| NOT AVAILABLE | NOT AVAILABLE | NOT ESTABLISHED | MODERATE

| SENSITIZATION OF MATERIAL | SYNERGISTIC MATERIALS
| NOT AVAILABLE | NOT AVAILABLE

| CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY:
| NONE KNOWN
| MORPHOLINE MAY REACT WITH NITRITES TO FORM N-NITROSAMINES (KNOWN
| CARCINOGENS)

SECTION VII - PREVENTIVE MEASURES

| PERSONAL PROTECTIVE EQUIPMENT:

| GLOVES: RUBBER OR VINYL
| RESPIRATORY: NIOSH/MSHA APPROVED RESPIRATOR IF MISTY CONDITIONS
| PREVAIL
| EYE: SAFETY GOGGLES OR FACE SHIELD
| FOOTWEAR: IMPERMEABLE
| CLOTHING: IMPERMEABLE
| OTHER: EYE WASH AND SAFETY SHOWER
| ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): LOCAL OR
| MECHANICAL EXHAUST IF AIRBORNE CONCENTRATIONS EXCEED RECOMMENDED
| EXPOSURE LEVELS.

| LEAK AND SPILL PROCEDURE: PROVIDE ADEQUATE VENTILATION. REMOVE
| SOURCES OF IGNITION. STOP LEAK AND CONTAIN SPILL. PREVENT ENTRY INTO
| SEWERS AND WATERWAYS. TRANSFER TO SUITABLE CONTAINER FOR RECLAIM OR
| DISPOSAL. ABSORB REMAINING MATERIAL ONTO INERT ABSORBANT AND SCOOP
| INTO DISPOSAL CONTAINER. FLUSH RESIDUAL WITH VOLUMES OF WATER.

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



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SECTION VIII - FIRST AID MEASURES

PROCEDURES:
EYE CONTACT: IMMEDIATELY FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT
LEAST 15 MINUTES. SEEK MEDICAL ATTENTION.
SKIN-REMOVE CONTAMINATED CLOTHING AND FLUSH AFFECTED AREA WITH
RUNNING WATER FOR AT LEAST 15 MINUTES. IF PAIN OR IRRITATION
PERSISTS, GET MEDICAL ATTENTION. LAUNDER CLOTHING BEFORE REUSE.
INHALATION: REMOVE TO FRESH AIR. GIVE OXYGEN IF BREATHING IS
DIFFICULT. SEEK MEDICAL ATTENTION.
INGESTION: DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. SLOWLY
GIVE 1-2 GLASSES OF WATER TO DRINK. DO NOT GIVE ANYTHING BY MOUTH IF
VICTIM IS UNCONSCIOUS OR CONVULSING. GET 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, FLAMMABLE N.O.S. (MORPHOLINE)	8 (3)	2920	II

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.

SPECIAL SHIPPING INFORMATION: NONE

SECTION X - HAZARD RATING INFORMATION

FLAMMABILITY	REACTIVITY	HEALTH
2	0	2

SECTION XI - PREPARATION DATE OF MSDS

PREPARED BY: TECHNICAL DEPARTMENT	TELEPHONE # (905) 456-9444
REVISED: OCTOBER 10, 2009	REPLACES: JANUARY 4, 2004

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