



# 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: C, D2B

MATERIAL REFERENCE NO: 715700

## SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KEMTREET 157	
CHEMICAL NAME : NOT APPLICABLE	CHEMICAL FAMILY :ALKALINE BLEND
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: NOT APPLICABLE
SYNONYMS: NONE	
MATERIAL USE: SCALE AND CORROSION CONTROL	

## SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS   INGREDIENTS	APPROX.   % CONC.	TLV   PPM	C.A.S.   NUMBERS	LD 50   ORAL, RAT
1-HYDROXYETHYLIDENE   1,1, DIPHOSPHONIC   ACID	1.0-5.0	NO DATA	2809-21-4	2400 MG/KG
POTASSIUM HYDROXIDE	1.0-5.0	2 MG/M3	1310-58-5	273 MG/KG
PROPYLENE GLYCOL	1.0-5.0	NO DATA	57-55-6	20000 MG/KG
HYDROGEN PEROXIDE	5.0-10.0	1	7722-84-1	>2000 MG/KG

## SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID		
ODOUR AND APPEARANCE: CLEAR, FAINT STRAW COLOUR; VERY LOW ODOUR.		
ODOUR THRESHOLD (PPM)   NOT AVAILABLE	SPECIFIC GRAVITY   1.06	VAPOUR PRESSURE (MM)   NOT AVAILABLE
VAPOUR DENSITY (AIR=1)   NOT AVAILABLE	EVAPORATION RATE   (WATER = 1) < 1	SOLUBILITY IN WATER   (20°C) COMPLETE
BOILING POINT (C)   NOT AVAILABLE	FREEZING POINT (C)   NOT AVAILABLE	% VOLATILE (BY WEIGHT)   >88
pH (100% SOLUTION)   5.8-6.8	DENSITY (G/ML)   NOT APPLICABLE	COEF.OF WATER/OIL DISTR   NOT AVAILABLE



# MATERIAL SAFETY DATA SHEET

MATERIAL REFERENCE NO: 715700

## SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

FLAMMABILITY: NON-FLAMMABLE   IF YES, UNDER WHICH CONDITIONS:		
MEANS OF EXTINCTION: CHEMICAL FOAM, CARBON DIOXIDE, WATER FOG		
SPECIAL PROCEDURES: WEAR FULL PROTECTIVE GEAR INCLUDING SELF-   CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH   WATER.		
FLASH POINT (C) AND METHOD: NON-FLAMMABLE (TCC)		
HAZARDOUS COMBUSTION PRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE,   OXIDES OF NITROGEN, PHOSPHINES, VARIOUS ORGANICS, HYDROCARBONS.		
UPPER EXPLOSION LIMIT   NOT APPLICABLE	LOWER EXPLOSION LIMIT   NOT APPLICABLE	AUTOIGNITION TEMP(C)   NOT APPLICABLE
EXPLOSION DATA SENSITIVITY   TO CHEMICAL IMPACT   NOT AVAILABLE	RATE OF BURNING   NOT APPLICABLE	EXPLOSIVE POWER   NOT APPLICABLE
SENSITIVITY TO STATIC DISCHARGE: NOT AVAILABLE		

## SECTION V - REACTIVITY DATA

CHEMICAL STABILITY: NORMALLY STABLE   IF NO, UNDER WHICH CONDITIONS: HIGH TEMPERATURES		
INCOMPATIBILITY TO OTHER SUBSTANCES: YES   IF SO, WHICH ONES: CYANIDES, NITRIC ACID, POTASSIUM PERMANGANATE,   SEVERAL OXIDIZING AND REDUCING AGENTS.		
REACTIVITY AND UNDER WHAT CONDITIONS: NOT ESTABLISHED.		
HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION CAN LIBERATE   CARBON DIOXIDE, CARBON MONOXIDE, OXIDES OF NITROGEN, PHOSPHINES,   VARIOUS ORGANICS, HYDROCARBONS.		

## SECTION VI - HEALTH HAZARD DATA

ROUTE OF ENTRY:		
SKIN CONTACT: YES   INHALATION: YES	SKIN ABSORPTION: NO   INGESTION: YES	EYE CONTACT: YES



# MATERIAL SAFETY DATA SHEET

MATERIAL REFERENCE NO: 715700

EFFECTS OF ACUTE EXPOSURE TO MATERIAL:  
EYES-CONTACT MAY CAUSE MODERATE TO SEVERE IRRITATION.  
SKIN-CONTACT MAY CAUSE MILD TO MODERATE IRRITATION.  
INHALATION-EXCESSIVE INHALATION OF MIST OR VAPOURS MAY CAUSE IRRITATION OF RESPIRATORY TRACT.  
INGESTION-MAY CAUSE IRRITATION OF GASTROINTESTINAL TRACT, NAUSEA, VOMITING.

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:  
EYES-PROLONGED OR REPEATED CONTACT MAY CAUSE EYE DAMAGE.  
INGESTION: CAN CAUSE IRRITATION WITH UPPER ABDOMINAL PAIN, HEARTBURN  
POSSIBLE GASTROINTESTINAL TRACT BLEEDING, RED BLOOD CELL DESTRUCTION  
GAS EMBOLISM AND GANGRENE OF INTESTINE.

LD 50 OF MATL. NOT AVAILABLE	LC 50 OF MATL. NOT AVAILABLE	EXPOSURE LIMIT(S) NOT AVAILABLE	IRRITANCY OF MATL SKIN AND EYE
---------------------------------	---------------------------------	------------------------------------	-----------------------------------

SENSITIZATION OF MATERIAL NOT AVAILABLE	SYNERGISTIC MATERIALS NOT AVAILABLE
--	--

CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY:  
NONE KNOWN

## SECTION VII - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

GLOVES: RUBBER, NITRILE, PVC  
RESPIRATORY: NONE FOR NORMAL USE  
EYE: FACE SHIELD OR SAFETY GOGGLES  
FOOTWEAR: IMPERVIOUS  
CLOTHING: IMPERVIOUS  
OTHER: EYE WASH AND SAFETY SHOWER  
ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): LOCAL  
AS NEEDED TO CONTROL FUMES.

LEAK AND SPILL PROCEDURE: WEAR RECOMMENDED PROTECTIVE EQUIPMENT.  
STOP LEAK AND CONTAIN SPILL. TRANSFER TO SUITABLE CONTAINER FOR  
RECLAIM OR DISPOSAL. ABSORB REMAINING MATERIAL ONTO INERT ABSORBANT  
AND SCOOP INTO DISPOSAL CONTAINER. FLUSH AREA WITH LARGE AMOUNTS OF  
WATER.

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



# MATERIAL SAFETY DATA SHEET

MATERIAL REFERENCE NO: 715700

## SECTION VIII - FIRST AID MEASURES

PROCEDURES: EYES-IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR 15 MINUTES. IF PAIN OR IRRITATION PERSIST, SEEK MEDICAL ASSISTANCE.  
SKIN-REMOVE CONTAMINATED CLOTHING AND FLUSH AFFECTED AREA WITH WATER FOR 15 MINUTES. IF IRRITATION PERSIST, SEEK MEDICAL ASSISTANCE  
LAUNDER CLOTHING BEFORE REUSE.  
INHALATION-MOVE VICTIM TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION IF SYMPTOMS PERSIST.  
INGESTION-IF SWALLOWED-DO NOT INDUCE VOMITING. GIVE LARGE AMOUNTS OF WATER. IF VOMITING OCCURS, GIVE FLUIDS AGAIN. GET IMMEDIATE MEDICAL ATTENTION.

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
OXIDIZING LIQUID N.O.S. (HYDROGEN PEROXIDE)	5.1	3139	III

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 IN ORIGINAL CONTAINER. KEEP CONTAINER CLOSED WHEN NOT IN USE.

SPECIAL SHIPPING INFORMATION: NONE

## SECTION X - HMIS HAZARD RATING INFORMATION

FLAMMABILITY	REACTIVITY	HEALTH
0	1	2

## SECTION XI - PREPARATION DATE OF MSDS

PREPARED BY: TECHNICAL DEPARTMENT      TELEPHONE # (905) 456-9444  
REVIEWED:      FEBRUARY 24, 2004

### DISCLAIMER:

THE INFORMATION CONTAINED HEREIN IS COMPILED FROM SOURCES BELIEVED TO BE RELIABLE. THE MANNER AND CONDITIONS OF USE AND HANDLING MAY INVOLVE OTHER AND ADDITIONAL CONSIDERATIONS. WE ACCEPT NO RESPONSIBILITY FOR THE ACCURACY, SUFFICIENCY, RELIABILITY OR FOR ANY LOSS OR INJURY RESULTING FROM THE USE OF THE INFORMATION.