



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, D1B, E, F

MATERIAL REFERENCE NO: 711500

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KT # 115 "PEROXIDE 15"	
CHEMICAL NAME: HYDROGEN PEROXIDE	CHEMICAL FAMILY: PEROXIDES
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: NOT AVAILABLE
SYNONYMS: NONE	
MATERIAL USE: OXIDIZER	

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. % CONCENT.	TLV PPM	C.A.S. NUMBERS	LD 50 ORAL, RAT
HYDROGEN PEROXIDE	10.0-30.0	1	7722-84-1	805 MG/KG

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID		
ODOUR AND APPEARANCE: CLEAR COLOURLESS LIQUID; PUNGENT.		
ODOUR THRESHOLD (PPM) NOT AVAILABLE	SPECIFIC GRAVITY 1.1	VAPOUR PRESSURE 48 Pa @ 20 (C)
VAPOUR DENSITY (AIR=1) 1	EVAPORATION RATE (BUTYL ACETATE=1) >1	SOLUBILITY IN WATER (20°C) COMPLETE
BOILING POINT (C) 108	FREEZING POINT (C) APPROX. -33	% VOLATILE (BY WEIGHT) 100
pH (100% SOLUTION) 1.0-3.0	DENSITY (G/ML) NOT APPLICABLE	COEF.OF WATER/OIL DISTR 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: WATER, WATER FOG, FOAM.

| SPECIAL PROCEDURES: WEAR FULL PROTECTIVE GEAR INCLUDING SELF- |
| CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH |
WATER.

FLASH POINT (C) AND METHOD: NON FLAMMABLE

| HAZARDOUS COMBUSTION PRODUCTS: OXYGEN WHICH SUPPORTS COMBUSTION. |

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

EXPLOSION DATA SENSITIVITY	RATE OF BURNING	EXPLOSIVE POWER
TO CHEMICAL IMPACT		
NO DATA	NOT APPLICABLE	NO DATA

SENSITIVITY TO STATIC DISCHARGE: NO DATA

SECTION V - REACTIVITY DATA

| CHEMICAL STABILITY: NORMALLY STABLE |
| IF NO, UNDER WHICH CONDITIONS: HIGH HEAT AND CONTAMINATION MAY CAUSE |
PRODUCT TO BECOME UNSTABLE.

| INCOMPATIBILITY TO OTHER SUBSTANCES: YES |
| IF SO, WHICH ONES: REDUCING AGENTS, ALKALIS, ORGANICS, COMBUSTIBLES, |
IRON AND OTHER HEAVY METALS, COPPER ALLOYS, CAUSTIC.

| REACTIVITY AND UNDER WHAT CONDITIONS: |
| COMBUSTIBLE MATERIALS CONTAMINATED WITH HYDROGEN PEROXIDE SHOULD BE |
| RINSED THOROUGHLY WITH WATER. TO REMOVE RESIDUAL PRODUCT WHICH WHEN |
| DRY CAN CAUSE THE MATERIAL TO IGNITE. |
| INCOMPATIBLE MATERIALS MAY CAUSE PRODUCT INSTABILITY. |
HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION PRODUCTS: OXYGEN WHICH SUPPORTS COMBUSTION.

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-CORROSIVE. MAY CAUSE CONJUNCTIVITIS, CORNEAL BURNS AND |
|PERMANENT DAMAGE. SYMPTOMS MAY BE DELAYED. |
|SKIN-CORROSIVE. MAY CAUSE BURNS RESULTING IN PERMANENT DAMAGE. |
|PROLONGED EXPOSURE MAY CAUSE SEVERE IRRITATION AND WHITE |
|DISCOLOURATION. BURNING MAY RESULT IN LOCALIZED ERYTHEMA (REDNESS) |
|OR EVEN BLISTERING OF SKIN. |
|INHALATION-BREATHING OF MISTS OR VAPOURS MAY BE SEVERELY IRRITATING |
|TO NOSE, THROAT AND LUNGS. VAPOURS MAY CAUSE PULMONARY EDEMA. TOXIC |
|EFFECTS MAY BE DELAYED. |
|INGESTION-CORROSIVE TO GASTROINTESTINAL TRACT. DO NOT INGEST. MAY |
|BE FATAL IF SWALLOWED. |

|EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: |
|NO DATA. |

LD 50 OF MATL.	LC 50 OF MATL.	EXPOSURE LIMIT(S)	IRRITANCY OF MATL
(ORAL, RAT)	(RAT)	TLV 1 PPM	SEVERE IRRITANT
>225 MG/KG AND	>0.17 MG/L		CORROSIVE
<1200 MG/KG	(50% H2O2)		

SENSITIZATION OF MATERIAL	SYNERGISTIC MATERIALS
NO DATA	NOT AVAILABLE

|CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY: |
|HYDROGEN PEROXIDE IS CLASSIFIED BY IARC AS GROUP 3 CARCINOGEN AND BY |
|ACGIH AS A-3-CONFIRMED ANIMAL CARCINOGEN WITH UNKNOWN RELEVANCE TO |
|HUMANS. |

SECTION VII - PREVENTIVE MEASURES

|PERSONAL PROTECTIVE EQUIPMENT: |

| GLOVES: NATURAL RUBBER, BUTYL RUBBER OR NITRILE |
| RESPIRATORY: SELF-CONTAINED BREATHING APPARATUS IF CONC. EXCEEDS 10 |
| PPM.DO NOT USE OXIDIZABLE SORBANTS (IE:ACTIVATED CARBON) |
| EYE: CUP TYPE CHEMICAL GOGGLES OR FULL FACE SHIELD. |
| FOOTWEAR: RUBBER OR NEOPRENE. (AVOID LEATHER). |
| CLOTHING: POLYESTER OR ACRYLIC (AVOID COTTON, WOOL OR LEATHER) |
| OTHER: EYE WASH AND SAFETY SHOWER |
| ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): MECHANICAL |
| OR LOCAL TO PREVENT RELEASE OF VAPOUR/MIST INTO WORK ENVIRONMENT. |

|LEAK AND SPILL PROCEDURE: STOP LEAK AND CONTAIN SPILL. PREVENT |
|ENTRY INTO SEWERS OR STREAMS. TRANSFER LIQUID TO SUITABLE CONTAINER |
|FOR REUSE OR DISPOSAL. FLUSH AREA WITH WATER. |
|COMBUSTIBLE MATERIALS EXPOSED TO HYDROGEN PEROXIDE SHOULD BE DILUTED |
|WITH VOLUMES OF WATER TO ENSURE REMOVAL OF ALL HYDROGEN PEROXIDE. |

|WASTE DISPOSAL: DISPOSE OF IN ACCORDANCE WITH FEDERAL, PROVINCIAL |
|AND LOCAL REGULATIONS. CONSULT APPROPRIATE REGULATORY AGENCY. IT MAY |
|BE ACCEPTABLE TO DISCHARGE DECOMPOSED MATERIAL INTO SUITABLE WASTE |
|TREATMENT SYSTEM. |



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SECTION VIII - FIRST AID MEASURES

PROCEDURES:

EYES-IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR AT LEAST 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION.

SKIN-REMOVE CONTAMINATED CLOTHING AND FLUSH AFFECTED AREA WITH WATER FOR 15 MINUTES. IF PAIN OR IRRITATION PERSIST, SEEK MEDICAL ASSISTANCE. LAUNDRY CLOTHING BEFORE REUSE.

INHALATION-MOVE VICTIM TO FRESH AIR. IF BREATHING IS DIFFICULT OR DISCOMFORT OCCURS, GET MEDICAL ATTENTION.

INGESTION-IF SWALLOWED, DO NOT INDUCE VOMITING. DO NOT GIVE ANYTHING BY MOUTH IF PERSON IS CONVULSING OR UNCONSCIOUS. GET IMMEDIATE MEDICAL ATTENTION. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO LUNGS.

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

ADDITIONAL INFORMATION: NONE

SECTION IX - TDG SHIPPING INFORMATION

SHIPPING NAME	CLASS	UN NO.	PG
PEROXIDES, INORGANIC, N.O.S. (HYDROGEN PEROXIDE)	5.1	2984	III

HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID BREATHING VAPOURS. SHOULD BE STORED IN VENTILATED CONTAINERS. DO NOT RETURN UNUSED PRODUCT TO ORIGINAL CONTAINER.

STORAGE REQUIREMENTS: STORE IN A COOL, DRY, WELL VENTILATED AREA IN ORIGINAL CONTAINER PROPERLY SEALED.

SPECIAL SHIPPING INFORMATION: HEATED

SECTION X - HMIS HAZARD RATING INFORMATION

FLAMABILITY	REACTIVITY	HEALTH
0	3	3

SECTION XI - PREPARATION DATE OF MSDS

PREPARED BY: TECHNICAL DEPARTMENT TELEPHONE # (905) 456-9444

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