



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

MATERIAL REFERENCE NO: 787300

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: BROMINE TABLETS	
CHEMICAL NAME : BROMOCIDE TABLETS	CHEMICAL FAMILY: ORGANIC
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: MIXTURE
SYNONYMS: NONE	
MATERIAL USE: BIOCIDES	

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. % CONCENT.	TLV PPM	C.A.S. NUMBERS	LD 50 ORAL, RAT
1-BROMO-3-CHLORO-5 5-DIMETHYL HYDANTOIN	80.0-100.0	NO DATA	16079-88-2	578 MG/KG ORAL RAT 2 GM/KG DERMAL RABBIT

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: TABLET		
ODOUR AND APPEARANCE: SOLID, FAINT HALOGEN ODOUR		
ODOUR THRESHOLD (PPM) NOT AVAILABLE	SPECIFIC GRAVITY NOT APPLICABLE	VAPOUR PRESSURE NOT AVAILABLE
VAPOUR DENSITY (AIR=1) NOT APPLICABLE	EVAPORATION RATE NOT AVAILABLE	SOLUBILITY IN WATER 0.15 GM / 100 G WATER
BOILING POINT (C) NOT AVAILABLE	FREEZING POINT (C) NOT AVAILABLE	% VOLATILE (BY WEIGHT) NOT AVAILABLE
pH (100 % SOLUTION) 3.5	DENSITY (G/ML) 60.1 LB/CU FT	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: AS APPROPRIATE FOR SURROUNDING MATERIALS.			
SPECIAL PROCEDURES: WEAR FULL PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATUS FOR ALL FIRES INVOLVING CHEMICALS.			
FLASH POINT (C) AND METHOD: NONE			
HAZARDOUS COMBUSTION PRODUCTS: BROMINE, BROMIDE HYDROGEN CHLORIDE			
UPPER EXPLOSION LIMIT	LOWER EXPLOSION LIMIT	AUTOIGNITION TEMP(C)	
NONE	NONE	NOT ESTABLISHED	
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: NORMALLY STABLE			
IF NO, UNDER WHICH CONDITIONS:			
CONTACT WITH METALS. UNSTABLE UNDER FIRE CONDITIONS.			
INCOMPATIBILITY TO OTHER SUBSTANCES: YES			
IF SO, WHICH ONES: OXIDIZABLE MATERIALS, UREA, NICKEL,			
COPPER, TIN, MANGANESE, IRON, NITROGEN			
REACTIVITY AND UNDER WHAT CONDITIONS: NOT AVAILABLE			
HAZARDOUS POLYMERIZATION WILL NOT OCCUR.			
HAZARDOUS DECOMPOSITION PRODUCTS: BROMINE, BROMIDE, CHLORINE,			
HYDROGEN CHLORIDE			

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-CAN CAUSE IRRITATION AND SEVERE DAMAGE RESULTING IN BLINDNESS.
SKIN-CAN CAUSE SEVERE LOCAL IRRITATION, BURNS, BLISTERS. PROLONGED
OR REPEATED CONTACT WITH SOLUTIONS MAY BLEACH SKIN OR CAUSE
DERMATITIS.
INHALATION- MAY CAUSES IRRITATION OF THE NOSE AND UPPER
RESPIRATORY TRACT, HEADACHES AND COUGHING.
INGESTION-CAN CAUSE BURNING IN MOUTH AND THROAT, SEVERE PAIN,
VOMITING, DIARRHEA.

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:
SEE ACUTE EFFECTS.

LD 50 OF MATL.	LC 50 OF MATL.	EXPOSURE LIMIT(S)	IRRITANCY OF MATL
NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	CORROSIVE

SENSITIZATION OF MATERIAL	SYNERGISTIC MATERIALS
NONE KNOWN	NONE KNOWN

CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY
NONE KNOWN

SECTION VII - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

GLOVES: RUBBER, VINYL, PVA FOR PROLONGED CONTACT.
RESPIRATORY: NIOSH/MSHA APPROVED AIR-PURIFYING RESPIRATOR EQUIPPED
WITH CHLORINE CARTRIDGES AS NECESSARY.
EYE: SAFETY GOGGLES.
FOOTWEAR: RUBBER IF REQUIRED.
CLOTHING: RUBBER APRON IF REQUIRED.
OTHER: EYE WASH AND SAFETY SHOWER
ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): LOCAL
EXHAUST.

LEAK AND SPILL PROCEDURE: VENTILATE AREA. CONTAIN SPILL. SCOOP UP
AND PLACE IN SUITABLE CONTAINER FOR REUSE OR DISPOSAL. FLUSH
RESIDUAL WITH VOLUMES OF WATER.

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



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SECTION VIII - FIRST AID MEASURES

PROCEDURES:	
EYES	FLUSH WITH RUNNING WATER FOR AT LEAST 20 MINUTES WHILE HOLDING THE EYELID OPEN. GET MEDICAL ATTENTION.
SKIN	REMOVE CONTAMINATED CLOTHING. FLUSH AFFECTED AREA WITH WATER FOR 20 MINUTES. OBTAIN MEDICAL ATTENTION IF IRRITATION PERSISTS. LAUNDER CLOTHING BEFORE REUSE.
INHALATION	REMOVE PERSON TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION ONLY IF BREATHING HAS STOPPED. GET MEDICAL ATTENTION.
INGESTION	DO NOT INDUCE VOMITING. IF VICTIM IS ALERT AND NOT CONVULSING, RINSE MOUTH WITH WATER AND GIVE 1/2 TO 1 GLASS OF WATER TO DILUTE MATERIAL. 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 SOLID, N.O.S. (BROMOCHLORO-5,5-DIMETHYLHYDANTOIN)	5.1	1479	II
HANDLING PROCEDURES AND EQUIPMENT: WASH THOROUGHLY AFTER HANDLING. DO NOT GET IN EYES OR ON CLOTHING.			
STORAGE REQUIREMENTS: STORE IN A COOL (BELOW 29 C), DRY, WELL VENTILLATED AREA, AWAY FROM INCOMPATIBLE MATERIALS AND DIRECT SUNLIGHT. LONG TERM STORAGE IS IMPOSSIBLE WITHOUT SOME DECOMPOSITION			
SPECIAL SHIPPING INFORMATION: NONE			

SECTION X - HMIS HAZARD RATING INFORMATION

FLAMMABILITY	REACTIVITY	HEALTH
0	1	2

SECTION XI - PREPARATION DATE OF MSDS

PREPARED-BY: N1ITILASS UN-NO: PACKING-GROUP: AE-0CENTILLATED ARH