



# 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"**

MATERIAL REFERENCE NO: 264400

## SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: SANITROL	
CHEMICAL NAME: BENZALKONIUM	CHEMICAL FAMILY: QUATERNARY
CHLORIDE	AMMONIUM CHLORIDE
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: NOT APPLICABLE
SYNONYMS: NONE	
MATERIAL USE: SANITIZING AGENT	

## SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS	APPROX.	TLV	C.A.S.	LD 50
INGREDIENTS	% CONCENT.	PPM	NUMBERS	ORAL, RAT
n-ALKYL DIMETHYL	7.0-13.0	NO DATA	68424-85-1	426 MG/KG
BENZYL AMMONIUM		AVAILABLE		
CHLORIDE				
ETHYL ALCOHOL	1.0-5.0	1000	64-17-5	1501 MG/KG

## SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID	
ODOUR AND APPEARANCE: CLEAR, LIGHT BLUE LIQUID; MILD AMINE ODOUR.	
ODOUR THRESHOLD (PPM)	SPECIFIC GRAVITY
NOT AVAILABLE	0.988-0.993
VAPOUR DENSITY (AIR=1)	EVAPORATION RATE
> 1	SAME AS WATER
SOLUBILITY IN WATER	(20°C) COMPLETE
BOILING POINT (C)	FREEZING POINT (C)
<100	0 (EST.)
% VOLATILE (BY WEIGHT)	89-90
pH (10% SOLUTION)	DENSITY (G/ML)
7.0-8.0	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: ALCOHOL FOAM, CARBON DIOXIDE, WATER SPRAY, CO2.			
SPECIAL PROCEDURES: WEAR FULL PROTECTIVE GEAR INCLUDING SELF-			
CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH			
WATER SPRAY. PRODUCTS OF COMBUSTION ARE TOXIC.			
FLASH POINT (C) AND METHOD: MINIMUM 100 (TCC)			
HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF CARBON AND NITROGEN,			
AMMONIA.			
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: AVOID HIGH TEMPERATURES.			
INCOMPATIBILITY TO OTHER SUBSTANCES: YES			
IF SO, WHICH ONES: STRONG OXIDIZING AGENTS, ANIONIC MATERIALS.			
REACTIVITY AND UNDER WHAT CONDITIONS: NOT AVAILABLE.			
HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION CAN YIELD			
OXIDES OF NITROGEN AND CARBON, AMMONIA.			

## 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 IRRITATION, EYE DAMAGE OR BURNS. |  
|SKIN-PROLONGED CONTACT MAY CAUSE IRRITATION, POSSIBLE BURNS. |  
|INHALATION-PROLONGED INHALATION OF HIGH CONCENTRATIONS OF VAPOUR CAN |  
|CAUSE NAUSEA, LOSS OF MOTOR SKILLS AND DISORIENTATION. |  
|INGESTION-HARMFUL IF SWALLOWED. MAY CAUSE GASTROINTESTINAL |  
|IRRITATION, NAUSEA, VOMITING AND DIARRHEA. |  
|

|EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: |  
|NOT AVAILABLE. |  
|

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

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

|CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY: |  
|NONE KNOWN. |  
|

## SECTION VII - PREVENTIVE MEASURES

|PERSONAL PROTECTIVE EQUIPMENT: |

| GLOVES: IMPERVIOUS |  
|RESPIRATORY: NIOSH APPROVED RESPIRATORY PROTECTION IF EXPOSURE LIMIT |  
| IS EXCEEDED OR IF IRRITATION IS EXPERIENCED. |  
| EYE: FACE SHIELD OR SAFETY GOGGLES. |  
| FOOTWEAR: NO SPECIAL REQUIREMENTS |  
| CLOTHING: NO SPECIAL REQUIREMENTS FOR NORMAL PRODUCT USE. |  
| IMPERVIOUS WHEN HANDLING CONCENTRATE. |  
| OTHER: EYE WASH AND SAFETY SHOWER |  
|ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): LOCAL |  
| EXHAUST AS NEEDED TO CONTROL FUMES. |

|LEAK AND SPILL PROCEDURE: WEAR RECOMMENDED PROTECTIVE EQUIPMENT. |  
|REMOVE IGNITION SOURCES. CONTAIN SPILL. PREVENT ENTRY INTO SEWERS |  
|AND OPEN BODIES OF WATER. TRANSFER MATERIAL TO SUITABLE CONTAINER |  
|FOR REUSE OR DISPOSAL. ABSORB REMAINING MATERIAL ONTO INERT |  
|ABSORBENT AND PLACE IN 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: EYES-IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR AT |  
| LEAST 15 MINUTES. GET MEDICAL ASSISTANCE IMMEDIATELY. |  
| SKIN-REMOVE CONTAMINATED CLOTHING AND THOROUGHLY FLUSH CONTAMINATED |  
| AREA WITH RUNNING WATER FOR AT LEAST 15 MINUTES. GET MEDICAL |  
| ASSISTANCE. LAUNDRY CLOTHING BEFORE REUSE. |  
| INHALATION-MOVE VICTIM TO FRESH AIR. IF NOT BREATHING, ADMINISTER |  
| ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GET IMMEDIATE |  
| MEDICAL ATTENTION. |  
| INGESTION- DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO |  
| AN UNCONSCIOUS OR CONVULSING PERSON. GET IMMEDIATE MEDICAL ATTENTION. |  
| NOTE TO PHYSICIAN-TREATMENT BASED ON SOUND JUDGMENT OF PHYSICIAN AND |  
| INDIVIDUAL REACTIONS OF PATIENT. PROBABLE MUCOSAL DAMAGE MAY |  
| CONTRAINDICATE THE USE OF GASTRIC LAVAGE. |

| 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
NOT REGULATED			

| HANDLING PROCEDURES AND EQUIPMENT: WEAR PROTECTIVE CLOTHING. WASH |  
| THOROUGHLY AFTER HANDLING. |

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

| SPECIAL SHIPPING INFORMATION: NONE |

## SECTION X - HMIS HAZARD RATING INFORMATION

FLAMMABILITY	REACTIVITY	HEALTH
1	0	2

## SECTION XI - PREPARATION DATE OF MSDS

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

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