



# 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 104500

## SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: ASD-55	
CHEMICAL NAME: NOT APPLICABLE	CHEMICAL FAMILY: ALKALINE BLEND
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: NOT APPLICABLE
SYNONYMS: NONE	
MATERIAL USE: FOOD SERVICE RENOVATOR	

## SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. % CONCENT.	TLV PPM	C.A.S. NUMBERS	LD 50 RAT, ORAL
SODIUM METASILICATE	5.0-10.0	NONE	6834-92-0	1200 MG/KG
AMINO ALCOHOL	0.5- 1.5	NONE	124-68-5	NOT AVAILABLE
BUTYL CELLOSOLVE	1.0- 5.0	25	111-76-2	470 MG/KG
ISOPROPYL ALCOHOL	3.0- 7.0	400	67-63-0	5045 MG/KG

## SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID		
ODOUR AND APPEARANCE: LIGHT PURPLE COLOUR, FAINT CHEMICAL ODOUR		
ODOUR THRESHOLD (PPM) NOT AVAILABLE	SPECIFIC GRAVITY 1.08	VAPOUR PRESSURE (MM) 760 AT 93.3 (C)
VAPOUR DENSITY (AIR=1) > 1	EVAPORATION RATE (WATER = 1) 1	SOLUBILITY IN WATER COMPLETE (20 ø C)
BOILING POINT (C) 93.3	FREEZING POINT (C) 0 (EST.)	% VOLATILE (BY WEIGHT) >80
pH (100% SOLUTION) 12.0-12.5	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: YES   IF YES, UNDER WHICH CONDITIONS: VAPOURS FROM A SEALED CONTAINER   MAY BE FLAMMABLE. NON-FLAMMABLE WHEN USED AS DIRECTED.		
MEANS OF EXTINCTION: WATER FOG, CHEMICAL FOAM, CO2		
SPECIAL PROCEDURES: WEAR FULL PROTECTIVE GEAR AND SELF-CONTAINED   BREATHING APPARATUS. COOL FIRE EXPOSED DRUMS WITH WATER.		
FLASH POINT (C) AND METHOD: 34.4 (TAG CLOSED CUP)		
HAZARDOUS COMBUSTION PRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE,   TRACE OF SULPHUR DIOXIDE.		
UPPER EXPLOSION LIMIT   NOT AVAILABLE	LOWER EXPLOSION LIMIT   NOT AVAILABLE	AUTOIGNITION TEMP(C)   NOT AVAILABLE
EXPLOSION DATA SENSITIVITY   TO CHEMICAL IMPACT   NOT AVAILABLE	RATE OF BURNING   NOT AVAILABLE	EXPLOSIVE POWER   NOT AVAILABLE
SENSITIVITY TO STATIC DISCHARGE: NOT AVAILABLE		

## SECTION V - REACTIVITY DATA

CHEMICAL STABILITY: YES   IF NO, UNDER WHICH CONDITIONS:		
INCOMPATIBILITY TO OTHER SUBSTANCES: YES   IF SO, WHICH ONES: STRONG ACIDS OR OTHER REACTIVE MATERIALS.		
REACTIVITY AND UNDER WHAT CONDITIONS: NOT ESTABLISHED   HAZARDOUS POLYMERIZATION WILL NOT OCCUR.		
HAZARDOUS DECOMPOSITION PRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE,   TRACE OF SULPHUR.		

## SECTION VI - HEALTH HAZARD DATA

ROUTE OF ENTRY:		
SKIN CONTACT: YES   INHALATION: YES	SKIN ABSORPTION: YES   INGESTION: YES	EYE CONTACT: YES



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EFFECTS OF ACUTE EXPOSURE TO MATERIAL:  
EYES-CONCENTRATE MAY CAUSE STINGING, TEARING.  
SKIN-CONCENTRATE MAY CAUSE ITCHING OR TINGLING, INFLAMMATION.  
INHALATION-PROLONGED BREATHING OF CONCENTRATED VAPOURS MAY CAUSE IRRITATION OF EYES, NOSE AND THROAT, COUGHING, DIZZINESS.  
INGESTION-MAY CAUSE IRRITATION AND BURNING SENSATION OF LIPS, MOUTH AND THROAT, PAIN IN SWALLOWING, GASTRO-INTESTINAL IRRITATION, ABUNDANT SALIVATION, STOMACH CRAMPS, NAUSEA.

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:  
EYES-CONTACT MAY CAUSE CONJUNCTIVITIS, BURNS AND IRREPARABLE DAMAGE OF MUCOUS MEMBRANES, ULCERATION OF EYES, LOSS OF SIGHT.  
SKIN-CONTACT MAY CAUSE IRRITATION, DEFATTING, DERMITITIS.  
INHALATION-MAY CAUSE CHEMICAL BRONCHITIS.  
INGESTION-MAY CAUSE GASTRO INTESTINAL IRRITATION, NAUSEA, VOMITING, DIARRHEA, STATE OF SHOCK, POSSIBLE UNCONSCIOUSNESS, COMA.

LD 50 OF MATL. NOT AVAILABLE	LC 50 OF MATL. NOT AVAILABLE	EXPOSURE LIMIT(S) NOT AVAILABLE	IRRITANCY OF MATL MODERATE
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SENSITIZATION OF MATERIAL NOT AVAILABLE	SYNERGISTIC MATERIALS NOT AVAILABLE
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CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY  
NONE KNOWN  
CONTAINS BUTYL CELLOSOLVE-A HEMOLITIC AGENT CHARACTERIZED BY A REDUCTION OF RED BLOOD CELLS AND BLOOD IN THE URINE.

## SECTION VII - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

GLOVES: RUBBER OR VINYL WHEN HANDLING CONCENTRATE  
RESPIRATORY: NOT NORMALLY REQUIRED  
EYE: FACE SHIELD OR SAFETY GOGGLES IF SLASHING MAY OCCUR  
FOOTWEAR: NO SPECIAL REQUIREMENTS  
CLOTHING: NO SPECIAL REQUIREMENTS  
OTHER: EYE WASH, SAFETY SHOWER  
ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): NATURAL IS SUFFICIENT IN USE AREAS.

LEAK AND SPILL PROCEDURE: REMOVE IGNITION SOURCES. CONTAIN SPILL.  
SMALL SPILLS MAY BE FLUSHED TO SEWER WITH LARGE VOLUMES OF WATER.  
LARGE SPILLS-TRANSFER TO SUITABLE CONTAINER FOR REUSE OR DISPOSAL.  
FLUSH AREA WITH VOLUMES OF WATER TO REMOVE RESIDUAL PRODUCT.

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



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## SECTION VIII - FIRST AID MEASURES

PROCEDURES:  
 EYES-FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION IF PAIN OR IRRITATION PERSISTS.  
 SKIN-REMOVE & WASH CONTAMINATED CLOTHING. FLUSH AFFECTED AREA FOR 15 MINUTES. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.  
 INHALATION-MOVE VICTIM TO FRESH AIR AND LOOSEN CLOTHING. IF BREATHING IS DIFFICULT GIVE OXYGEN. IF NOT BREATHING, ADMINISTER ARTIFICIAL RESPIRATION AND THEN GIVE OXYGEN. GET MEDICAL ATTENTION.  
 INGESTION- IF SWALLOWED DO NOT INDUCE VOMITING. GIVE COLD WATER OR ICE TO RINSE MOUTH. GIVE WATER, VINEGAR OR FRUIT JUICE. 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.	PG
CORROSIVE LIQUIDS, N.O.S. (DISODIUM TRIOXOSILICATE)	8	1760	III

HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH EYES AND SKIN. WEAR PROTECTIVE EQUIPMENT WHERE NECESSARY. DO NOT MIX WITH ACIDS. AVOID IGNITION SOURCES. WASH THOROUGHLY AFTER HANDLING.

STORAGE REQUIREMENTS: KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP FROM FREEZING.

SPECIAL SHIPPING INFORMATION: HEATED

## SECTION X - HMIS HAZARD RATING INFORMATION

FLAMMABILITY	REACTIVITY	HEALTH
1	0	1

## SECTION XI - PREPARATION DATE OF MSDS

PREPARED BY: TECHNICAL DEPARTMENT      TELEPHONE # (905) 456-9444  
 REVIEWED:      MARCH 27, 2003

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