



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 NO: 263700

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: RUSTLESS	
CHEMICAL NAME: NOT APPLICABLE	CHEMICAL FAMILY: ACID BLEND
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: NOT APPLICABLE
SYNONYMS: NONE	
MATERIAL USE: RUST REMOVER	

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. % CONCENT.	TLV PPM	C.A.S. NUMBERS	LD 50 ORAL, RAT
BUTYL CELLOSOLVE	1.0-5.0	25	111-76-2	470 MG/KG
PHOSPHORIC ACID	30.0-70.0	1 MG/M3	7664-38-2	1530 MG/KG
SULPHAMIC ACID	1.0-5.0	1 MG/M3	5329-14-6	1450 MG/KG
		(EST.)		

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID	
ODOUR AND APPEARANCE: OPAQUE, PINK LIQUID; BUTYL ODOUR.	
ODOUR THRESHOLD (PPM)	SPECIFIC GRAVITY
> 1	1.186
VAPOUR PRESSURE (MM)	
NOT AVAILABLE	
VAPOUR DENSITY (AIR=1)	EVAPORATION RATE
> 1	(ETHYL ACETATE=1) <1
SOLUBILITY IN WATER	
(20°C) SOLUBLE	
BOILING POINT (C)	FREEZING POINT (C)
NOT AVAILABLE	NOT AVAILABLE
% VOLATILE (BY WEIGHT)	
55	
pH (1.0% SOLUTION)	DENSITY (G/ML)
2.0-2.5	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: AS APPROPRIATE FOR SURROUNDING MATERIALS			
SPECIAL PROCEDURES: WEAR FULL PROTECTIVE GEAR INCLUDING SELF-			
CONTAINED BREATHING APPARATUS.			
FLASH POINT (C) AND METHOD: NONE (TCC)			
HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF CARBON, SULPHUR, NITROGEN.			
AMMONIA, AN INTENSE FIRE MAY GIVE OFF PHOSPHORIC OXIDES.			
UPPER EXPLOSION LIMIT	LOWER EXPLOSION LIMIT	AUTOIGNITION TEMP (C)	
NOT APPLICABLE	NOT APPLICABLE	NOT AVAILABLE	
EXPLOSION DATA SENSITIVITY	RATE OF BURNING	EXPLOSIVE POWER	
TO CHEMICAL IMPACT			
NOT AVAILABLE	NOT APPLICABLE	NOT AVAILABLE	
SENSITIVITY TO STATIC DISCHARGE: NOT AVAILABLE			

SECTION V - REACTIVITY DATA

CHEMICAL STABILITY: NORMALLY STABLE			
IF NO, UNDER WHICH CONDITIONS: VERY HIGH HEAT			
INCOMPATIBILITY TO OTHER SUBSTANCES: YES			
IF SO, WHICH ONES: STRONG ALKALIES, ACTIVE METALS (i.e.: IRON)			
REACTIVITY AND UNDER WHAT CONDITIONS: NOT ESTABLISHED			
HAZARDOUS POLYMERIZATION WILL NOT OCCUR.			
HAZARDOUS DECOMPOSITION PRODUCTS: ALDEHYDES, KETONES. THERMAL			
DECOMPOSITION CAN YIELD OXIDES OF CARBON, SULPHUR, NITROGEN. AMMONIA			
AMMONIA, AN INTENSE FIRE MAY GIVE OFF PHOSPHORIC OXIDES.			

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-MISTS MAY CAUSE EYE IRRITATION. CONTACT WITH LIQUID CAN CAUSE SEVERE BURNS AND PERMANENT EYE DAMAGE.
SKIN-MAY CAUSE BURNS IF NOT WASHED OFF IMMEDIATELY. PROLONGED OR REPEATED CONTACT WITH BUTYL CELLOSOLVE MAY RESULT IN ABSORPTION THROUGH INTACT SKIN CAUSING SYSTEMIC POISONING.
INHALATION-VAPOUR OR MIST MAY CAUSE IRRITATION OF NOSE AND THROAT.
INGESTION-MAY CAUSE BURNS TO MOUTH AND THROAT, PAIN IN STOMACH, DIFFICULTY IN BREATHING, NAUSEA, VOMITING, DIARRHEA AND CONVULSIONS.

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:
SKIN-PROLONGED OR REPEATED CONTACT MAY CAUSE DERMATITIS.

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
NOT AVAILABLE	NOT AVAILABLE

CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY:
ANIMAL STUDIES HAVE SHOWN BUTYL CELLOSOLVE IS A HEMOLYTIC AGENT, CHARACTERIZED BY A REDUCTION IN NUMBER OF RED BLOOD CELLS AND BLOOD IN URINE.

SECTION VII - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

GLOVES: IMPERVIOUS
RESPIRATORY: APPROVED MIST REPIRATOR IF MIST OR VAPOUR IS GENERATED
EYE: CHEMICAL GOGGLES OR SAFETY SHIELD
FOOTWEAR: IMPERMEABLE
CLOTHING: IMPERMEABLE
OTHER: EYE WASH AND SAFETY SHOWER
ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): LOCAL EXHAUST IF MIST OR VAPOUR IS GENERATED.

LEAK AND SPILL PROCEDURE: CONTAIN SPILL. WEAR RECOMMENDED PROTECTIVE EQUIPMENT. TRANSFER TO SUITABLE CONTAINER FOR RECLAIM OR DISPOSAL. ABSORB REMAINING MATERIAL ONTO INERT ABSORBENT AND SCOOP INTO DISPOSAL CONTAINER. FLUSH RESIDUAL WITH VOLUMES OF WATER.

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



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SECTION VIII - FIRST AID MEASURES

PROCEDURES:
EYES-FLUSH WITH RUNNING WATER FOR AT LEAST 20 MINUTES WHILE HOLDING EYELIDS OPEN. GET IMMEDIATE MEDICAL ATTENTION.
SKIN-REMOVE CONTAMINATED CLOTHING AND FLUSH AFFECTED AREA WITH RUNNING WATER FOR AT LEAST 20 MINUTES. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. LAUNDRER CLOTHING BEFORE REUSE.
INHALATION-REMOVE TO FRESH AIR. 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. RINSE MOUTH WITH WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON. GET IMMEDIATE MEDICAL AID.

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
CORROSIVE LIQUIDS N.O.S. (PHOSPHORIC ACID)	8	1760	II

HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH EYES, SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING.

STORAGE REQUIREMENTS: STORE IN A COOL, DRY AREA AWAY FROM INCOMPATIBLE MATERIALS. KEEP CONTAINER CLOSED WHEN NOT IN USE.

SPECIAL SHIPPING INFORMATION: HEATED

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: OCTOBER 4, 2009

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