



MATERIAL SAFETY DATA SHEET

KEM CANADA MFG.
 4 BLAIR DRIVE
 BRAMPTON, ONTARIO
 L6T 2H5

EMERGENCY # (905) 456-9444
 CANUTEC # (613) 996-6666
 W.H.M.I.S. CLASSIFICATION
 D2B, E

MATERIAL REFERENCE NO: 105700

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: BATTERY TERMINAL CLEANER	
CHEMICAL NAME: NOT APPLICABLE	CHEMICAL FAMILY: ALKALINE BLEND
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: NOT APPLICABLE
SYNONYMS: NONE	
MATERIAL USE: ALKALINE BATTERY POST CLEANER	

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. % CONCENT.	TLV PPM	C.A.S. NO.	LD 50 RAT, ORAL
SODIUM METASILICATE	5.0-10.0	NO DATA	6834-92-0	1153 MG/KG
TRISODIUM PHOSPHATE	1.0-5.0	NO DATA	7601-54-9	2000 MG/KG
DIPROPYLENE GLYCOL METHYL ETHER	1.0-5.0	150	34590-94-8	5400 µL/KG

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID		
ODOUR AND APPEARANCE: CLEAR, ORANGE LIQUID; SLIGHT AMMONIA ODOUR.		
ODOUR THRESHOLD (PPM) NOT AVAILABLE	SPECIFIC GRAVITY 1.04	VAPOUR PRESSURE (MM) NOT AVAILABLE
VAPOUR DENSITY (AIR=1) > 1	EVAPORATION RATE (WATER = 1) <1	SOLUBILITY IN WATER COMPLETE (20 ° C)
BOILING POINT (C) 93.3	FREEZING POINT (C) 0 (EST.)	% VOLATILE (BY WEIGHT) 93
pH (10% SOLUTION) 11.5-12.5	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: NON-FLAMMABLE			
IF YES, UNDER WHICH CONDITIONS:			
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: NONE (TAG CLOSED CUP)			
HAZARDOUS COMBUSTION PRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE,			
AMMONIA, OXIDES OF PHOSPHOROUS AND SODIUM.			
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: YES			
IF NO, UNDER WHICH CONDITIONS:			
INCOMPATIBILITY TO OTHER SUBSTANCES: YES			
IF SO, WHICH ONES: STRONG ACIDS, STRONG OXIDIZERS.			
REACTIVITY AND UNDER WHAT CONDITIONS: NOT ESTABLISHED			
HAZARDOUS POLYMERIZATION WILL NOT OCCUR.			
HAZARDOUS DECOMPOSITION PRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE,			
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-CONCENTRATE MAY CAUSE MODERATE TO SEVERE IRRITATION, POSSIBLE |

|BURNS, TEARING. |

|SKIN-CONCENTRATE MAY CAUSE IRRITATION, REDNESS, DRYING OF SKIN. |

|INHALATION-CONCENTRATED VAPOURS MAY CAUSE IRRITATION OF NOSE, EYES |

|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. |

|SKIN-CONTACT MAY CAUSE IRRITATION, DEFATTING, DERMITITIS, |

| |

| |

| |

|LD 50 OF MATL. |LC 50 OF MATL. |EXPOSURE LIMIT(S) |IRRITANCY OF MATL. |

| NOT AVAILABLE | NOT AVAILABLE | NOT AVAILABLE |MODERATE TO SEVERE |

|SENSITIZATION OF MATERIAL | SYNERGISTIC MATERIALS |

| NOT AVAILABLE | NOT AVAILABLE |

|CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY |

|NONE KNOWN |

| |

SECTION VII - PREVENTIVE MEASURES

|PERSONAL PROTECTIVE EQUIPMENT: |

| GLOVES: RUBBER OR VINYL WHEN HANDLING CONCENTRATE |

|RESPIRATORY: NOT NORMALLY REQUIRED |

| EYE: SAFETY GOGGLES RECOMMENDED |

| FOOTWEAR: IMPERMEABLE |

| CLOTHING: IMPERMEABLE |

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SECTION VIII - FIRST AID MEASURES

| PROCEDURES: |

| EYES-FLUSH WITH WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS |

| OPEN. GET MEDICAL ATTENTION IF PAIN OR IRRITATION PERSISTS. |

| SKIN-FLUSH AFFECTED AREA WITH WATER FOR AT LEAST 15 MINUTES. WHILE |

| REMOVING CONTAMINATED COTHING. GET MEDICAL ATTENTION IF IRRITATION |

| PERSISTS. LAUNDRER CLOTHING BEFORE REUSE. |

| INHALATION-MOVE VICTIM 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 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
NOT REGULATED			

| HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH EYES AND SKIN. |

| WEAR RECOMMENDED PROTECTIVE EQUIPMENT WHEN HANDLING CONCENTRATE. |

| WASH THOROUGHLY AFTER USE. |

| 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	2

SECTION XI - PREPARATION DATE OF MSDS

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

| REVISED: JUNE 21, 2009 REPLACES: OCTOBER 25, 2004 |

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