



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:
B3, D1A, D2A, D2B

MATERIAL REFERENCE NO: 239200

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: MOTOSOL	
CHEMICAL NAME: NOT APPLICABLE	CHEMICAL FAMILY: SOLVENT BLEND
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: MIXTURE
SYNONYMS: NONE	
MATERIAL USE: ENGINE DEGREASER	

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. CONCENT.	TLV PPM	C.A.S. NUMBERS	LD 50 ORAL,RAT
KEROSENE	40.0-70.0	5 MG/M3	8008-20-6	>5000 MG/KG
BUTYL CELLOSOLVE	1.0-5.0	25	111-76-2	1480 MG/KG
DIACETONE ALCOHOL	5.0-10.0	50	123-42-2	4000 MG/KG
POTASSIUM HYDROXIDE	5.0-10.0	2 MG/M3	1310-58-3	273 MG/KG
NONYL PHENOL ETHOXYLATE	1.0-5.0	NOT AVAILABLE	9016-45-9	1310 MG/KG

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID		
ODOUR AND APPEARANCE: CLEAR RED COLOUR, PAINT LIKE ODOUR.		
ODOUR THRESHOLD (PPM)	SPECIFIC GRAVITY	VAPOUR PRESSURE (MM)
APPROXIMATELY 375	0.860	NOT AVAILABLE
VAPOUR DENSITY (AIR=1)	EVAPORATION RATE	SOLUBILITY IN WATER
GREATER THAN 1	(KEROSENE=1) 1.2	(20 ø C) EMULSIFIABLE
BOILING POINT (C)	FREEZING POINT (C)	% VOLATILE (BY WEIGHT)
150	NOT AVAILABLE	81
pH (10% SOLUTION)	DENSITY (G/ML)	COEF.OF WATER/OIL DISTR
9.8-10.2	NOT AVAILABLE	NOT AVAILABLE



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SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

FLAMMABILITY: COMBUSTIBLE		
IF YES, UNDER WHICH CONDITIONS:		
MEANS OF EXTINCTION: CHEMICAL FOAM, CARBON DIOXIDE.		
SPECIAL PROCEDURES: WEAR FULL PROTECTIVE GEAR AND SELF-CONTAINED BREATHING APPARATUS. MEDIA CONTAINING WATER MUST BE APPLIED WITH CARE TO PREVENT FROTH OR FOAM, WHICH WILL SPREAD THE FIRE. DO NOT GET ANY INTO PUBLIC WATERWAYS.		
FLASH POINT (C) AND METHOD: 43.3 (TCC)		
HAZARDOUS COMBUSTION PRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE, FUMES, SMOKE, VARIOUS HYDROCARBONS		
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: NORMALLY STABLE.		
IF NO, UNDER WHICH CONDITIONS: HIGH TEMPERATURES.		
INCOMPATIBILITY TO OTHER SUBSTANCES: YES		
IF SO, WHICH ONES: STRONG OXIDIZING AGENTS		
REACTIVITY AND UNDER WHAT CONDITIONS: NONE KNOWN.		
HAZARDOUS DECOMPOSITION PRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE.		

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, TEARING.
SKIN-CONTACT MAY CAUSE DRYING OF SKIN, CRACKING WITH IRRITATION.
INHALATION-MAY CAUSE IRRITATION OF NOSE, EYES AND THROAT, COUGHING, DIZZINESS.
INGESTION-MAY CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND DIARRHEA.

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:
EYES-PROLONGED OR REPEATED CONTACT MAY CAUSE CORNEAL INJURY.
SKIN-PROLONGED OR REPEATED EXPOSURES CAN SKIN RASH (DERMATITIS).

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

SENSITIZATION OF MATERIAL	SYNERGISTIC MATERIALS
NOT AVAILABLE	NOT AVAILABLE

CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY
NONE KNOWN.
CONTAINS BUTYL CELLOSOLVE-A HEMOLITIC AGENT CHARACTERIZED BY A
REDUCTION IN RED BLOOD CELLS AND BLOOD IN THE URINE.

SECTION VII - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

GLOVES: RUBBER OR VINYL
RESPIRATORY: APPROVED ORGANIC CANISTER FOR PROLONGED OR REPEATED USE
EYE: FACE SHIELD OR SAFETY GOGGLES IF CONTACT IS LIKELY
FOOTWEAR: NO SPECIAL REQUIREMENTS
CLOTHING: NO SPECIAL REQUIREMENTS. COVER EXPOSED SKIN.
OTHER: EYE WASH AND SAFETY SHOWER.
ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): MECHANICAL
EXHAUST AS NEEDED TO CONTROL FUMES BELOW TLV.

LEAK AND SPILL PROCEDURE: ELIMINATE ALL IGNITION SOURCES. WEAR
RECOMMENDED PROTECTIVE EQUIPMENT. DYKE AREA AND CONTAIN SPILL.
TRANSFER INTO METAL CONTAINERS FOR REUSE OR DISPOSAL. ABSORB
REMAINDER ONTO ABSORBANT AND PLACE IN DRUM FOR DISPOSAL.

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



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SECTION VIII - FIRST AID MEASURES

PROCEDURES:
EYES-IMMEDIATELY FLUSH WITH RUNNING WATER FOR 15 MINUTES. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.
SKIN-REMOVE CONTAMINATED CLOTHING AND FLUSH AFFECTED AREA WITH WATER FOR 15 MINUTES. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.
LAUNDER CLOTHING BEFORE RE-USE.
INHALATION-MOVE VICTIM TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, THEN GIVE OXYGEN. GET MEDICAL ATTENTION.
INGESTION-DO NOT INDUCE VOMITING. GIVE MILK OF MAGNESIA, MILK OR EGG WHITE. IF VOMITING OCCURS, GIVE FLUIDS AGAIN. GET IMMEDIATE MEDICAL ATTENTION.
SOURCES USED: RAW MATERIAL SUPPLIERS' MATERIAL SAFETY DATA SHEETS.
ADDITIONAL INFORMATION: NONE

SECTION IX - TDG SHIPPING INFORMATION

SHIPPING NAME	CLASS	UN NO.	PACKING GROUP
FLAMMABLE LIQUIDS N.O.S. (KEROSENE)	3	1993	III
NOT REGULATED IN CONTAINERS LESS THAN 450 LITRES			
HANDLING PROCEDURES AND EQUIPMENT: USE IN WELL-VENTILATED AREAS. WASH THOROUGHLY AFTER HANDLING.			
STORAGE REQUIREMENTS: STORE IN A COOL, DRY AREA, WELL-VENTILATED AREA AWAY FROM OXIDIZING AGENTS. KEEP CONTAINER CLOSED WHEN NOT IN USE.			
SPECIAL SHIPPING INFORMATION: NONE			

SECTION X - HMIS HAZARD RATING INFORMATION

FLAMMABILITY	REACTIVITY	HEALTH
2	0	2

SECTION XI - PREPARATION DATE OF MSDS

PREPARED BY:	TECHNICAL DEPARTMENT	TELEPHONE # (905) 456-9444
REVIEWED:	OCTOBER 14, 2003	

DISCLAIMER:

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