

MATERIAL SAFETY DATA SHEET

This Material Safety Data Sheet complies with the Canadian Controlled Products Act
NOTE: THE FOLLOWING INFORMATION PROVIDED IS FOR THE PRODUCT CONCENTRATE ONLY, NOT FOR USE-DILUTIONS

	9	SECTION 1	- PRODUCT IDEN	ITIFICATION	
PRODUCT IDENTIFIER:	MMAND	O VEHICLI	E WASH		
PRODUCT USE: Vel	nicle Deterg	ent			
Uni Sui Em		190 th St.,	l) 881-4700	In case of transporation emergency or product spill, contact: In Canada- CANUTEC @ 613-996-6666 (24 hrs.)	
	9	SECTION 2	- HAZARDOUS IN	GREDIENTS	
HAZARDOUS INGREDIENTS	% (W/W)	CAS NUMBER	LD50	LC50	EXPOSURE LIMITS
Ethylenediaminetetraacetic acid, tetrasodium salt	1-5	1-5 64-02-8 3030 mg/kg (oral,rat) > 5g/kg (skin, rabbit)		Not available	Not established
Ethylene Glycol Monobutyl Ether	1-5	111-76-2	470mg/kg (oral,rat) 220mg/kg (skin,rabbit)	450ppm (inhal.,4hrs, rat)	OSHA(PEL)= 50ppm,skin ACGIH(TWA)= 20ppm,skin IDHL= 700ppm
Sodium dodecylbenzene sulfonate	5-10	25155-30-0	438 mg/kg (oral,rat)	Not available	Not established
Ethoxylated Alcohol	3-7 68439-46-3 1378 mg/kg (oral,rat) > 2g/kg (skin,rabbit)			Not available	Not established
Ethanolamine	1-5	141-43-5	1.72 g/kg (oral,rat), 1.0 g/kg (skin,rabbit)	Not available	OSHA(PEL) & ACGIH(TLV)= 3ppm(TWA) ACGIH(TLV)= 6 ppm(STEL)
Sodium Hydroxide			140-340 mg/kg(oral, rat) LDLo=500mg/kg	Not available	OSHA(PEL) & ACGIH (TLV)= 2mg/m3(ceiling)

Physical state: liquid Solubility: soluble

Odour and Appearance: clear liquid with a mild

ammoniacal odor

pH (100%) @ 20°C: 12.5-13.5 Specific Gravity @ 20°C: 1.044

Odour Threshold (ppm): not established

Vapour Density: not determined Vapour Pressure: not determined Evaporation Rate: not determined Boiling Point (°C): not determined Freezing Point (°C): not determined

Coefficient of water/oil distribution: Greater than

1

COMMANDO VEHICLE WASH

SECTION 4 – FIRE AND EXPLOSION DATA

Flammability: No, product is non-flammable.

If yes, under what condition: Not applicable.

Means of Extinction: Dry chemical, alcohol foam, CO₂, water spray. The product is not flammable. Use extinguishing media suitable for surrounding fires.

Special Fire Fighting Procedures: Wear NIOSH/OSHA approved, self contained breathing apparatus for fire fighting situations. Use water spray to cool all nearby fire exposed surfaces.

Explosion Data-

Sensitivity to impact: None

Sensitivity to static discharge: None

Flash Point (°C) and method: not applicable

Upper Flammable limit (% volume): not applicable Lower Flammable limit (% volume): not applicable

Autoignition temperature (°C): not applicable

Hazardous combustion products:

carbon/nitrogen/sulfur oxides, and other toxic organic vapours.

SECTION 5 – REACTIVITY DATA

Chemical Stability: yes, stable under normal storage conditions

If no, under what conditions:

Incompatibility with other substances: yes

If so, under what conditions: strong acids and oxidizers Reactivity, and under what conditions: none known

Hazardous Decomposition Products: may form carbon/nitrogen/sulfur oxides upon thermal decomposition.

SECTION 6 – TOXICOLOGICAL PROPERTIES

Primary route of entry: skin and eye contact, skin absorption, inhalation

Effects of Acute Exposure to Product: Product exposure may cause irritation or burns to skin and eye. Inhaling mist or vapors may cause immediate irritation, burns or discomfort to respiratory system, headaches, nausea, etc. Also, may be harmful if absorbed through skin.

Effects of Chronic Exposure to Product: Prolonged exposure may cause skin dermatitis and respiratory disorder. May also cause blood, kidney and liver disorders through repeated exposure of Ethylene glycol Monobutyl ether (based on animal test data).

Exposure Limits: see Section 2 under Hazardous

Ingredients

Irritancy of Product: corrosive to skin, eves and

respiratory system.

Sensitization: none known

Reproductive Toxicity: none known

Mutagenicity: none known

Carcinogenicity: glycol ether monobutyl ether is

classified as Group 3 (Unclassifiable as to carcinogenicity in humans) under IARC and A3 (confirmed animal carcinogen

with unknown revelence to humans) under ACGIH.

Teratogenicity: none known

Synergistic Products: none known

COMMANDO VEHICLE WASH

SECTION 7 - PREVENTATIVE MEASURES

Respiratory Protection: Use a NIOSH/OSHA approved for alkaline mist/dust and organic vapor respirator if mists or vapors are present.

Gloves: butyl or natural rubber, nitrile, neoprene

Eve Protection: splash proof chemical goggles or face

shield.

Footwear: rubber shoes

Clothing: long sleeve coveralls

Other: rubber apron

Engineering Controls: General ventilation for normal operating conditions or local exhaust for confined areas.

Leak and Spill Procedures: Wear protective equipment. Contain spill. Prevent runoff to drains or sewers. Recover material by vacuum or pump into a suitable waste container. Reuse material if possible, or otherwise neutralize with acid before disposal. Dispose in accordance with local regulations.

Waste Disposal: Dispose of in accordance with local environmental regulations.

Handling Procedures and Equipment: Use good hygiene practices. Avoid contact with eyes, skin and clothing. Avoid inhaling mists/vapors. Safety shower and eye wash station should be available in the immediate work area.

Storage Requirements: Store in a cool, dry place away from incompatibles. Do not mix with any other chemicals. Keep container closed when not in use. Keep from freezing and temperatures below 30°C.

Special Shipping Information:

WHMIS Classification: D2B, E

TDG Classification: Corrosive Liquid, N.O.S. (Ethanolamine and Sodium Hydroxide Mixture), Class 8, UN 1760, P.G. III

SECTION 8 - FIRST AID MEASURES

Inhalation: Remove victim to fresh air, apply artificial respiration if necessary. Seek medical help.

Ingestion: Give large amounts of water if conscious. Do not induce vomiting. Get medical help immediately.

Skin Contact: Wash thoroughly with water for 15 minutes. If irritation persist, seek medical attention.

Flush immediately with water for 15-20 minutes. Seek medical help. **Eye Contact:**

SECTION 9 - OTHER INFORMATION							
REVISIONS:	October 15, 2010	SUPERCEDES:	February 20, 2008				
PREPARED BY:	Technical Department (Customer Service phone number: 604-881-4700)						
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