

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

	S	ECTION 1	- PRODUCT IDENT	IFICATION			
PRODUCT IDENTIFIER:	MBAT						
PRODUCT USE: He	avy Duty Citr	us based Cle	aner and Degreaser				
Un Su Em	ocity Chemic t #1, 9515- 1 rey, B.C. V4l ergency Tele ssimile: (604)	In case of transporation emergency or product spill, contact: In Canada- CANUTEC @ 613-996-6666 (24 hrs.)					
	SI	ECTION 2 -	- HAZARDOUS ING	REDIENTS			
HAZARDOUS INGREDIENTS	% (W/W)	CAS NUMBER	LD50	LC50	EXPOSURE LIMITS		
Diethylene Glycol Monobu Ether	tyl 5-10	112-34-5	7292mg/kg (oral,rat), 2764mg/kg (skin,rabbit)	Not available	Not established		
D-Limonene	30-60	5989-27-5	> 5 g/kg (oral/dermal, rabbit)	Not available	Not established		
Ethoxylated Alcohol	5-10	68131-39-5	500-5000mg/kg (oral,rat)	Not available	Not established		
SECTION 3 – PHYSICAL DATA							

Physical state: liquid Solubility: dispersible

Odour and Appearance: clear liquid with a citrus odor

pH (100%) @ 20°C: 5.0-7.0 Specific Gravity @ 20°C: 0.90

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: not

determined

COMBAT

SECTION 4 – FIRE AND EXPLOSION DATA

Flammability: Yes, combustible under WHMIS B3
If yes, under what condition: heat, open flames, sparks and other ignition sources

Means of Extinction: Dry chemical, alcohol foam, CO₂, water spray. 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: 55°C (PMCC)

Upper Flammable limit (% volume): not applicable Lower Flammable limit (% volume): not applicable Autoignition temperature (°C): not applicable

Hazardous combustion products: carbon 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 alkalis, acids and oxidizers

Reactivity, and under what conditions: none known

Hazardous Decomposition Products: carbon oxides upon thermal decomposition.

SECTION 6 - TOXICOLOGICAL PROPERTIES

Primary route of entry: skin and eye contact, inhalation

Effects of Acute Exposure to Product: Product exposure may cause irritation to skin and eyes. Inhaling mist or vapors may cause irritation, discomfort to respiratory system and central nervous system(CNS) effects. Symptoms may include headaches, loss of coordination, nausea, etc.

Effects of Chronic Exposure to Product: Prolonged exposure may cause skin dermatitis.

Exposure Limits: see Section 2 under Hazardous

Ingredients

Irritancy of Product: may be irritating to skin, eyes and

respiratory system.

Sensitization: D-limonene may cause skin sensitization

in some individuals.

Reproductive Toxicity: none known

Mutagenicity: none known
Carcinogenicity: none known
Teratogenicity: none known

Synergistic Products: none known

COMBAT

SECTION 7 - PREVENTATIVE MEASURES

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

are present.

Gloves: nitrile, neoprene or viton

Eye Protection: splash proof chemical goggles

Footwear: boots

Clothing: long sleeve coveralls

Other: neoprene apron

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

Leak and Spill Procedures: Wear protective equipment. Extinguish all nearby ignition sources. Contain spill. Prevent runoff to drains or sewers. Recover material by vacuum or pump into a suitable flammable waste container. Soak up residue with suitable absorbent ,and then dispose of into a flammable waste container. Reuse material if possible, or otherwise dispose of 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 breathing vapors or mists. Use with adequate ventilation. Use proper grounding procedures when handling. Empty container may contain flammable residues/vapors. Do not cut, puncture, or weld near empty container. Eye wash station should be available in the immediate work area.

Storage Requirements: Store in a cool, dry place away from all nearby ignition sources and incompatibles. Do not mix with any other chemicals. Keep container closed when not in use. Keep storage temperature between 4°C to 30°C.

Special Shipping Information:

WHMIS Classification: B3, D2B

TDG Classification: Not Regulated (exempt for package less than 450L)

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.

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

SECTION 9 -	OTHER INFORMATION
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PREPARED BY:	Technical Department (Customer Service phone number: 604-881-4700)						
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