

MATERIAL SAFETY DATA SHEET

Mariner's Choice

Wipe-N-Clean Citrus Power Cleaner

SECTION I - PRODUCT IDENTIFICATION

Product Name : CITRUS POWER
Product Use : General purpose cleaner
Chemical Family : Not applicable

Manufacturer Name and Address :

Mariner's Choice (Canada)
26 Voyager Court South
Toronto, Ontario M9W 5M7
Canada

Manufacturer Name and Address :

Mariner's Choice (USA)
8640 Philips Highway
Suite 5
Jacksonville, FL 32256

Emergency Telephone # :

Canutec (613) 996-6666

SECTION II - HAZARDOUS INGREDIENTS

Ingredients	CAS#	(wt.)%	Exposure Limits	LD50/I50 Specify Species & Route
Nonionic Surfactant	9016-45-9	7-13	N/AV	LD50 (oral, rat) 3000 mg/kg LC50 (dermal, rabbit) 2830 mg/kg
Ethylene Glycol Monobutyl Ether	111.76.2	7-13	TLV=25ppm skin (ACGIH 1987 & 1988)	LD50 (oral, rat) 1480 mg/kg LC50 =450 ppm/4 th (rat)
D-Limonene	5989-27-5	5-10	N/AV	800mg/kg LC50 n/av LD50 4400 mg/kg (oral, rat)

SECTION III - HAZARDOUS IDENTIFICATION

Route of Entry :

Skin Contact: Yes

Skin Absorption: n/a

Inhalation, Chronic: n/a

Inhalation: n/a

Ingestion: Yes

Eye Contact: n/a

Effects of Acute Exposure: n/a

Effects of Chronic Exposure: n/a

SECTION IV - PHYSICAL DATA

Physical State : Liquid
Odor and appearance : citrus odor slightly viscous
Specific gravity : 1.02
Coefficient of water/oil distribution : n/a
Vapor pressure (mm Hg) : Not available
Boiling point : 100° C
Freezing point: 0° C
pH : 12.2 +/- 0.5
Vapor density (Air = 1) : Not available
Evaporation rate (BuAe = 1) : .01

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Flash point: Not available
Volatiles, % : <85
Solubility in water : completely soluble

SECTION V - FIRE AND EXPLOSION DATA

Conditions of flammability : No
If Yes under which Conditions?
Means of extinction : n/a
Sensitivity to mechanical impact/static discharge : Not available
Flash point (Method) : none
Upper flammable limit % : n/a
Lower flammable limit % : n/a
Auto-ignition temperature : n/a
Hazardous Combustion Products : Oxides of carbon
Special Fire Fighting Procedures : No special procedure. Same as for surrounding material, use self contained breathing apparatus.

SECTION VI - REACTIVITY DATA

Chemical Stability: Yes
Incompatible materials : Strong oxidizing agents.
Conditions of reactivity : n/a
Hazardous decomposition products : oxides of carbon
Hazardous polymerization: n/a

SECTION VII - FIRST AID

Inhalation : n/a
Skin : Wash with soap and water.
Eyes : Flush with water for 15 minutes. If irritation persists seek medical attention.
Ingestion: Do not induce vomiting. Seek medical attention immediately.

SECTION VIII - HMIS Rating

(0 – 4: 0 = least, 1 = slight, 2 = moderate, 3 = high, 4 = extreme)

Health : 1
Flammability : 1
Reactivity: 1
Personal Protection: B (goggles and gloves)

SECTION IX - PREVENTIVE MEASURES

Spill, leak or release : Flush with water.
Waste disposal : Neutralize to pH .9 before disposal. Dispose according to local regulations.

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*** PROTECTIVE EQUIPMENT ***

Respiratory protection: none
Ventilation: normal
Protective gloves : rubber or vinyl
Protective clothing : rubber apron
Protective footwear : none special
Eye protection : Goggles if eye contact possible
Other protective equipment :

*** STORAGE and HANDLING ***

Storage and handling conditions :
Handling : No special precaution.
Storage : Store at ambient temperature in a sealed container.

Special Shipping Information : None

Abbreviations :
N/AV : not available
N/AP : not applicable
IARC : International Agency for Research on Cancer.
ACGIH : American Conference of Governmental Industrial Hygienists.
TLV : Threshold Limit Values.
NIOSH : National Institute of Occupational Safety and Health.
TDG : Transportation of Dangerous Goods Regulation.
BuAe : n-butyl acetate.

References :

- 1.) ACGIH, Threshold Limit Values and Biological Exposure Indices for 1988-89.
- 2.) International Agency for Research on Cancer Monographs, Supplement 7, 1988.
- 3.) Canadian Centre for Occupational Health and Safety. Cheminfo Database.
- 4.) Material Safety Data Sheets of raw materials.
- 5.) N. Irving Sax. Dangerous Properties of Industrial Materials. Sixth Edition.

SECTION X - PREPARATION INFORMATION

Additional Information:

MARINER'S CHOICE assumes no responsibility by its issuance of this information.

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