

MATERIAL SAFETY DATA SHEET

Mariner's Choice

Clean-N-Green Hull & Deck Cleaner

SECTION I: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Clean-N-Green Hull & Deck Cleaner **PRODUCT USE:** Marine Cleaner
MANUFACTURER: Mariner's Choice (Canada) **MANUFACTURER:** Mariner's Choice (USA)
ADDRESS: 26 Voyager Court South **ADDRESS:** 8640 Philips Highway
Toronto, Ontario M9W 5M7 Suite 5
Jacksonville, FL 32256
EMERGENCY #: 613 996 6666 (CANUTEC)

SECTION II: INFORMATION ON INGREDIENTS

Ingredients	CAS#	Wt%	OSHA-PEL	ACGIH-TLV	LD ₅₀
Soda Ash	497-19-8	1-5 %	Not applicable	Not applicable	4090mg/L (rat, oral)
Alcohol Ethoxylates	61702-78-1	1-5 %	Not applicable	Not applicable	> 2,000 mg/Kg (Oral/Rat)
Potassium Pyrophosphate	7320-34-5	1-5 %	Not applicable	Not applicable	Not Known
Polyaspartic Acid Sodium Salt	181828-06-8	1-5 %	Not applicable	Not applicable	> 2,000 mg/Kg (Oral/Rat)

There are no potential health effects expected from handling this material. Good housekeeping is expected when handling chemical products.

SECTION III: HAZARDOUS IDENTIFICATION

Route of Entry: Eye, skin contact, ingestion.
Potential Health Effects:
Eye Contact: May cause severe irritation to eyes
Skin Contact: May cause sever irritation upon repeated/ prolonged contact.
Inhalation: May cause nose, throat and respiratory tract irritation
Ingestion: May cause irritation to mouth, esophagus and stomach. May cause gastric tract disorder and/or damage.
Chronic Effects
Carcinogenicity: No ingredients listed IARC or NTP or ACGIC. Non hazardous by WHIMIS/OSHA criteria.
Teratogenicity, Mutagenicity, Reproductive Effects: The ingredients in this product were found not to be mutagenic when tested by the Ames Assay, (OECD Guidelines for chemical testing, sec.471)
Skin: Repeated or prolonged exposures to dilutions can cause drying, defatting and dermatitis.

SECTION IV: FIRST AID MEASURES

Eye Contact: Immediately flush with water for 15 minutes. Holding eyelids open during flushing. If irritation persists, repeat flushing and obtain medical attention immediately.
Skin Contact : Immediately flush with water for 15 minutes. Seek medical attention if irritation persists. Remove contaminated clothing and launder before reuse.
Inhalation: Move victim to fresh air. If conscious, have victim take deep, slow breaths. Seek medical attention if symptoms persist.
Ingestion: DO NOT INDUCE VOMITING. Rinse mouth with water, then drink one glass of water. Seek medical attention. Do not give anything to victim if unconscious or convulsing.

SECTION V: FIRE FIGHTING MEASURES

Flammability: Non flammable
Flash Point deg (C,TCC) : Not Applicable

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Means of Extinction: As appropriate for surrounding fire. Use water, dry chemical, carbon dioxide or foam
Special Fire Hazards: Fire fighters should wear self contained breathing apparatus.
Autoignition temperature: Not applicable.
Flame propagation or burning rate of solid: Not applicable.
Sensitivity to static discharge: Not applicable
Unusual Fire and Explosion Hazards: None expected. As per surrounding fire.
Hazardous decomposition products: Oxides of carbon, oxides of nitrogen, Hydrochloric Acid

SECTION VI: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures: Before attempting clean up, refer to the hazard data provided above. Small spills may be absorbed with non reactive absorbent and placed in suitable, covered, labeled container. For large quantities, dispose of in accordance with local, provincial/ state or federal regulations. For large spills prevent from entering sewers and waterways. For large spills provide diking to prevent spreading.

SECTION VII: HANDLING AND STORAGE

Storage Requirements: KEEP OUT OF REACH OF CHILDREN. Store in a closed container away from incompatible materials which include acids, oxidizing materials, reducing sugars and Ammonia Salts. Storage temperature C Ambient to 45 C (must be stored above 40 F at all times) Transport temperature C Ambient to 50 C (must be stored above 40 F at all times). Keep container closed. Handle and open container with care. Store in a well ventilated place away from incompatible materials. Do not store near open flame. Do not reuse empty containers.

SECTION VIII: EXPOSURE CONTROL/PERSONAL PROTECTION

Gloves: Use protective gloves if desired when handling concentrate.
Eye Protection: Chemical splash goggles.
Respiratory Protection: Not normally required if good ventilation is maintained. If mist is generated during application process, use disposable mist applicator.
Other Protective Equipment: As required by employer code. Eye bath, safety shower, protective clothing.
Engineering Controls: General ventilation normally required. If ventilation practices are not adequate for minimizing exposure, additional ventilation or exhaust systems may be required.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (deg C)	100	Specific Gravity (H₂O = 1):	1.02-1.05	Evaporation Rate (water=1):	similar
% Volatile (Wt%):	> 93 %	Solubility in water:	Complete	pH (as supplied):	7.00-8.00
Physical State:	Liquid	Viscosity:	As Water		
Appearance / Odour:	Clear liquid with mild typical odor				

SECTION X: STABILITY AND REACTIVITY

Conditions for Chemical Instability: Stable
Incompatible Materials: Strong oxidizing agents, strong acids.
Hazardous Decomposition Products: Oxides of carbon, Oxides of Nitrogen when heated. Hydrochloric acid, volatile amines and low molecular weight hydrocarbons can be produced.

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SECTION XI: TOXICOLOGICAL INFORMATION

Ingestion: Components of this product had an oral (rat) LD 50 between 1-2 ppm.

SECTION XII: ECOLOGICAL INFORMATION

Biodegradability: Surfactants are biodegradable as per Ready Biodegradability Closed bottle test (OECD 301 D, also known as the US EPA as OPPTS 835.3100 (Fate, Transport and Transformation Test Guidelines. Urea salt in biodegradable.

96 hour LC0> 140 mg/L (rainbow trout) 48 hour LC50 71.1 ml/L (ceriodaphnia dubia), 15 minute IC 50 16.23 % effect at a concentration of 10 mg/L (Vibrio fischeri 4 H 6002) .

SECTION XIII: DISPOSAL CONSIDERATIONS

Dispose of through a licensed waste management company. Dispose of in accordance to all local, provincial/state and federal regulations.

SECTION XIV: TRANSPORTATION

T.D.G. Classification: Not regulated
D.O.T. Classification: Not regulated

SECTION XV: REGULATORY INFORMATION

Occupational Health and Safety Regulations:
WHMIS Class: Class D Division 2B
OSHA & WHMIS: MSDS prepared pursuant to the Hazard Communication Standard (CFR29.1920.1200) and Canadian WHMIS regulations

Environmental Regulatory Lists:
SARA – Section 313 (Toxic Chemical Release Reporting) 40 CFR 372 None of these ingredients are listed.
CERCLA – Section 102 (Reportable Quantity) 40 CFR 302 None of the ingredients are listed
RCRA 40 CFR 261 (Subpart D) None of the ingredients are listed
CLEAN WATER ACT – Section 311 (Reportable Qty) 40 CFR 116: None of these ingredients are listed
CLEAN AIR ACT – Section 312 (List of Hazardous Pollutants) 40 CFR 63 (Subpart C) None of these ingredients are listed
National Pollutant Release Inventory None of these ingredients are listed
Toxic Substances Control Act (TSCA) All ingredients are registered on the Chemical Substances Inventory.
Canadian Domestic Substance List (DSL): All ingredients are registered on the DSL

SECTION XVI: OTHER INFORMATION

Date: October, 2010	Prepared By: Technical Services Group	Telephone: 416 238 3510
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Disclaimer:
Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond the control of supplier, it is assumed that users of this material; have been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries for consequential damages, which may result from the use or reliance on any information contained in this form. If user requires independent information on ingredients in this or other material, we recommend contact with the Canadian Centre for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (905-572-4400) or CSST on Montreal, Quebec (514-873-3990).