

MATERIAL SAFETY DATA SHEET

Mariner's Choice

Clean-N-Green On & Gone Stain Remover

SECTION I: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Clean-N-Green On & Gone **PRODUCT USE:** Hull and bottom wash
MANUFACTURER: Mariner's Choice (CAN) **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
Organic Salt	506-89-8	40-80 %	Not available	Not available	NE
Alcohol ethoxylate	68991-48-0	1-10 %	Not available	Not available	> 2,000 mg/kg (oral/ rat)

SECTION III: HAZARDOUS IDENTIFICATION

Emergency Overview: This product is a colorless to slight amber liquid with a mild odor. It is corrosive to the eyes and a mild skin irritant. If ingested, this product may be harmful or fatal.

Route of Entry: Eye, skin contact, ingestion.
Potential Health Effects:
Eye Contact: Causes burns to the eyes.
Acute eye irritation/ corrosion test: This product was found to be Corrosive to the eyes when tested using the modified draize method. (OECD Guidelines for Testing Chemicals 1992)
Skin Contact: Prolonged or repeated contact on skin can cause irritation.
NON Corrosive to Skin (as defined and tested in accordance with the US OSHA's Hazard Communication Standard, DOT Hazardous Material Regulations and TDG Regulations. Classified as mild skin irritant as per the 1992 OECD Guidelines for Testing Chemicals, number 404 " Acute Dermal Irritation/Corrosion.
Inhalation: Not a likely route of exposure due to physical properties. Product has a low vapor pressure at room temperature. Product can be irritating to the respiratory tract if inhaled as a mist or if the material is vaporized.
Ingestion: This product may be harmful or fatal if ingested.
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 laundry 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.

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SECTION V: FIRE FIGHTING MEASURES

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

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. At temperatures above 60 C/140F acid action on most metals may release Hydrogen, a highly flammable and explosive gas.
Hazardous decomposition products: Oxides of carbon, oxides of nitrogen, Hydrochloric Acid. Hydrogen may be released upon contact with certain metals.

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. Observe all personal protection equipment recommendations.

SECTION VII: HANDLING AND STORAGE

Storage Requirements: KEEP OUT OF REACH OF CHILDREN. Store in a closed container away from incompatible materials which include alkalis, oxidizing materials, reducing sugars and Ammonia Salts. Do not store in metal containers, especially Aluminum. Do not store at temperatures above 48 C / 120F

SECTION VIII: EXPOSURE CONTROL/PERSONAL PROTECTION

Gloves: Use protective gloves when handling concentrate..
Eye Protection: Use chemical goggles or full face shield.
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):	1.00-1.02	Evaporation Rate (water=1):	similar
% Volatile (Wt%):	> 40%	Solubility in water:	Complete	pH (as supplied):	1.0-1.5
Physical State:	Liquid	Viscosity:	Slightly viscous		
Appearance / Odour:	amber clear liquid with mild typical odor				

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SECTION X: STABILITY AND REACTIVITY

Conditions for Chemical Instability: Stable up to 110 C/ 230 F
Incompatible Materials: Strong oxidizing agents. This material is extremely hazardous in contact with chlorates or nitrates. This material is acidic. Contact with hypochlorite (eg chlorine bleach, sulfides or cyanides will liberate toxic gases. Contact with alkaline materials (eg ammonia) will generate heat.
Hazardous Decomposition Products: Oxides of carbon, Oxides of Nitrogen when heated. Hydrogen can be produced upon contact with certain metals.

SECTION XI: TOXICOLOGICAL INFORMATION

Carcinogenicity : Not listed by IARC, NTP or ACGIC
Tertogenicity, Mutagenicity Reproductive effects: None found when tested by the Ames Assay (OECD Guidelines for testing of Chemicals, Sec 471)
Synergistic Materials: None Known
Acute eye irritation/ corrosion test: This product was found to be corrosive to the eyes when tested using the Modified Draize Method.

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 is 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 in accordance to all local, provincial/state and federal regulations.

SECTION XIV: TRANSPORTATION

T.D.G. Classification: Corrosive liquid N.O.S.
Contains (Urea monohydrochloride)
Hazardous Class 8
ID Number: UN 1760
Packing Group III

D.O.T. Classification: Corrosive to Aluminum only
Not regulated

SECTION XV: REGULATORY INFORMATION

Occupational Health and Safety Regulations:
WHMIS Class: Class E 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

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**CLEAN AIR ACT – Section 312 (List of
Hazardous Pollutants) 40 CFR 63 (Subpart C)
National Pollutant Release Inventory
Toxic Substances Control Act (TSCA)
Canadian Domestic Substance List (DSL):**

None of these ingredients are listed

None of these ingredients are listed

All ingredients are registered on the Chemical Substances Inventory.

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).