

MATERIAL SAFETY DATA SHEET

Mariner's Choice

Treat-N-Fresh Holding Tank Treatment (Liquid)

SECTION I: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Treat-N-Fresh Holding Tank Treatment (kuquid) **PRODUCT USE:** Break down organic waste and eliminate odors

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
Bacterial complex					

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: Causes temporary discomfort and redness. May contribute to infection when in contact with open wounds.

Skin Contact: Prolonged contact may cause discomfort, defatting of tissue, possible dermatitis and skin sensitization.

Inhalation: No effect known.

Ingestion: No effect if ingested in small amounts. Very low toxicity. Irritation of mouth, esophagus and stomach may follow.

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: Flush with water for 15 minutes. If irritation persists seek medical attention immediately.

Skin Contact : Wash with soap and water. Seek medical attention if irritation persists. Remove contaminated clothing and launder before reuse.

Inhalation: N/A

Ingestion: Drink large quantities of water. Induce vomiting. Seek medical attention.

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: As for surrounding fire.

Autoignition temperature: Not applicable.

Flame propagation or burning rate of solid: Not applicable.

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Sensitivity to static discharge: Not applicable
Unusual Fire and Explosion Hazards. None expected. As per surrounding fire.
Hazardous decomposition products: Carbon oxides and sodium oxides.

SECTION VI: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures: Wash area with water. Dispose in accordance with federal, provincial and local regulations, in designated landfill sites.

SECTION VII: HANDLING AND STORAGE

Storage Requirements: KEEP OUT OF REACH OF CHILDREN. Store in well-ventilated area away from strong oxidizers. Keep container closed when not in use. Avoid exposure to high or low temperatures and humidity.

SECTION VIII: EXPOSURE CONTROL/PERSONAL PROTECTION

Gloves: Impervious protective gloves.
Eye Protection: Safety glasses may be worn.
Respiratory Protection: Not normally necessary.
Other Protective Equipment: Not required.
Engineering Controls: General ventilation normally required.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (deg C)	100°C	Specific Gravity (H₂O = 1):	N/A	Evaporation Rate (water=1):	N/A
% Volatile (Wt%):		Solubility in water:	Complete	pH (as supplied):	6.8 - 8.0
Physical State:	Liquid	Viscosity:			
Appearance / Odor:	White liquid with a fresh scent.				

SECTION X: STABILITY AND REACTIVITY

Conditions for Chemical Instability: Stable under normal conditions.
Incompatible Materials: Oxidizing material, acid base, strong acids or alkali compounds may inactivate biological cultures.
Hazardous Decomposition Products: None.

SECTION XI: TOXICOLOGICAL INFORMATION

Inhalation: N/A
Skin: Prolonged contact may cause discomfort, defatting of tissue, possible dermatitis and skin sensitization.
Eyes: Causes temporary discomfort and redness. May contribute to infection when in contact with open wounds.
Ingestion: No effect if ingested in small amounts. Very low toxicity. Irritation of mouth esophagus and stomach may follow.

SECTION XII: ECOLOGICAL INFORMATION

Biodegradability: All organic cleaning ingredients in this formulation are inherently biodegradable per OECD Test 302 B. 52 % DOC removal, 28 days.

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SECTION XIII: DISPOSAL CONSIDERATIONS

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 None of these ingredients are listed

Hazardous Pollutants) 40 CFR 63 (Subpart C) National Pollutant Release Inventory

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).