

1. Identification

Common Name/
Trade Name: **Fritz Mardel Bactershield**
Material Uses: Aquarium Herbal Treatment

Revision Date: October 27, 2014

Product Number : N/A

Supplier: FRITZ INDUSTRIES, INC.
500 N. SAM HOUSTON ROAD
MESQUITE, TX 75149

In Case of Emergency:

Week Days: CHEMTREC
(Monday – Friday 8-5): (7 days a week, 24 hours a day)
(972) 285-5471 (800) 424-9300
(800) 955-1323

2. Hazard(s) Identification

Classification: Product is not classified under GHS.

Labeling Symbol: Symbol is not required.
Signal word: Signal word is not required.
Hazard Statement: Not a hazardous substance or mixture.
Precautionary Statements: P102 Keep out of reach of children.
P264 Wash hands thoroughly after handling.

Other hazard information:

Physical/Chemical Hazards: No additional hazards.
Health Hazards: No additional hazards.
Environmental Hazards: No additional hazards.

3. Composition and Information on Ingredients

Chemical Identity	Classification	Numbers of Identity	% by Weight
D-Limonene	Natural Plant Oil	CAS# 5989-27-5	Proprietary
Pine Oil	Natural Plant Oil	CAS# 8023-99-2	Proprietary
Geranium Oil	Natural Plant Oil	CAS# 8000-42-2	Proprietary
Rosemary Oil	Natural Plant Oil	CAS# 84604-14-8	Proprietary
Cinnamon Oil Leaf	Natural Plant Oil	CAS# 8015-91-6	Proprietary
Water		CAS# 7732-18-5	Proprietary

4. First Aid Measures

Inhalation: Inhalation not probable. If mist is generated and inhaled, remove to fresh air. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical attention. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

Skin Contact: In case of contact, remove contaminated clothing and rinse contact areas with soap and plenty of water. Launder contaminated clothing before reuse. If irritation develops and persists, seek medical attention.

Eye Contact: In case of contact, immediately rinse eyes with water for a minimum of 15 minutes, keeping eyelids open. If irritation develops and persists, seek medical attention.

Ingestion: If swallowed, remove from mouth and rinse with water. Do not induce vomiting unless directed by medical personnel. If nausea or gastrointestinal irritation develops, seek medical attention.

5. Fire and Explosion Data

General Information: This material is not considered flammable or combustible.

Suitable Extinguishing Media: Use suitable media to extinguish surrounding fire.

Unsuitable Extinguishing Media: None known.

Specific Hazards in case of fire: Toxic or irritation fumes may be released from thermal decomposition.

Special Protective Equipment and Precaution for Fire Fighters: Full protective clothing and approved self-contained breathing apparatus required for fire personnel.

6. Accidental Release Measures

Personal precautions:	Use proper personal protective equipment, see section 8. Spilled material may cause a slipping hazard.
Environmental precautions:	Small amounts may be washed into drains with water. Do not allow large quantities to be discharged into sewers and waterways.
Methods and materials for containment and cleaning up:	Ventilate area. Isolate and contain spill. Use appropriate absorbent material to pick up material and place into suitable container for disposal. Wash down area of spill with water.

7. Handling and Storage

Precautions for safe handling:	For aquarium use only. Use proper personal protective equipment, see section 8. Wash thoroughly after handling.
Conditions for safe storage, including incompatibilities:	Keep container tightly closed. Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area. Do not store with acids, alkalis, oxidizing agents, reducing agents and flammable materials.

8. Exposure Controls/Personal Protection**Information on the system design:**

Exposure Limits:	Component Name	Reference	Limit Values
	Bactershield	ACGIH (TWA)	Not established
		NIOSH (REL)	Not established
		OSHA (PEL)	Not established

Ventilation:	Not required, but adequate ventilation is recommended.
Respiratory protection:	Not required, but if ventilation is inadequate, an approved respirator is recommended.
Eye protection:	Not required, but safety glasses with side-shields or goggles are recommended.
Skin protection:	Not required, but chemical resistant gloves are recommended.

9. Physical and Chemical Properties

Flashpoint:	Not determined	Lower Flammability Limit:	Not determined
Auto ignition Temperature:	Not determined	Upper Flammability Limit:	Not determined
Boiling Point:	Not determined	Specific Gravity:	Not determined
Melting Point:	Not applicable	% Volatile:	Not determined
Vapor Pressure, mm _{Hg} :	Not determined	Evaporation Rate (Water=1):	Not determined
Vapor Density (air=1):	Not determined	Viscosity:	Not determined
%Solubility in Water:	Soluble	Octanol/Water Partition Coefficient:	Not determined
Pour Point:	Not determined	pH:	3.8 – 4.5
Odor/Appearance:	Flowery-Citrus Odor/Cloudy Yellow Liquid		

10. Stability and Reactivity Data

Chemical Stability:	Product is stable under recommended conditions of storage and use.
Possibility of hazardous reactions:	None known.
Conditions to avoid:	Long term exposure to heat and direct sunlight.
Materials to avoid:	None known.
Hazardous Decomposition Products:	None known.

11. Toxicological Information

Routes of Exposure:	Eye contact, skin contact, and ingestion.
Acute Toxicity:	No data available.
Subchronic/Chronic Toxicity:	No known effects from chronic exposure.

12. Ecological Information

Persistence and degradability:	No data available.
Bio-accumulative potential:	No data available.
Mobility:	No data available.
Aquatic Toxicity:	No data available.

Test	Results	Comments
Toxicity	No data available	

13. Disposal Considerations

Waste Disposal:	Dispose material according to local, state, and federal regulations.
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14. Transport Information

US DOT Classification:

Not regulated.

15. Other Regulatory Information

Inventory Status:

D-Limonene, Pine Oil, and Cinnamon Oil Leaf are listed in TSCA inventory.
Geranium Oil and Rosemary Oil are not listed in TSCA inventory.

US Regulations:

SARA 302 EHS Chemicals: This material does not contain any SARA 302 extremely hazardous substances.
SARA (311/312) HAZARD CATEGORIES: No hazards listed.
SARA 313: This material does not contain any SARA 313 chemicals.
EPA CERCLA/Superfund Reportable Spill Quantity: This material does not contain any CERCLA regulated chemicals.

16. Other Information

Abbreviations and acronyms:

ACGIH: American Conference of Governmental Industrial Hygienists
CAS: Chemical Abstract Service
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act
EHS: Extremely Hazardous Substances
EPA: Environmental Protection Agency
GHS: Globally Harmonized System
HMIS: Hazardous Materials Identification System
mg/m3: Milligrams per Cubic Meter
NFPA: National Fire Protection Association
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety and Health Administration
PEL: Permissible Exposure Limit
PPE: Personal Protective Equipment
PPM: Parts per Million
REL: Recommended Exposure Limit
SARA: Superfund Amendments and Reauthorization Act
STEL: Short-term exposure limit
TSCA: Toxic Substances Control Act
TWA: Time weighted average

Additional Information:

HMIS (U.S.A.): Health 0, Flammability 0, Reactivity 0, Protective Equipment e
NFPA (U.S.A.): Health 0, Flammability 0, Reactivity 0

Prepared by: Michael Carlo

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End of SDS