

1. Identification

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

Revision Date: November 22, 2019

Product Number: N/A

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

In Case of Emergency:

Weekdays: CHEMTREC
 (Monday – Friday 8-5): (7 days a week, 24 hours a day)
 (972) 329-8800 (800) 424-9300
 (800) 955-1323

2. Hazard(s) Identification

Classification: Skin Sensitization, Category 1

Labeling:

Symbol:



Signal Word: WARNING

Hazard Statement: H317 May cause an allergic skin reaction.

Precautionary Statements: P102 Keep out of reach of children.
 P261 Avoid breathing mist/vapor/spray.
 P264 Wash hands thoroughly after handling.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P280 Wear protective gloves/eye protection.
 P302 + P352 IF ON SKIN: wash with plenty of soap and water.
 P333 + P313 IF SKIN irritation or rash occurs: Get medical advice/attention.
 P363 Wash contaminated clothing before reuse.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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:	If 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 or rash 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 symptoms persist, 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 irritating 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 exposed areas 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

Exposure Limits:

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

Ventilation:	Use with adequate ventilation.
Respiratory Protection:	If ventilation is inadequate, use a MSHA/NIOSH approved respirator that meets with OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements.
Eye Protection:	Safety glasses with side-shields or splash goggles.
Skin Protection:	Chemical resistant gloves.

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	Density (g/cm ³):	0.990 -1.008
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:	4.4 – 5.2
Odor/Appearance:	Flowery-Citrus Odor/Cloudy White 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:	Acids, alkalis, oxidizing agents, reducing agents and flammable materials.
Hazardous Decomposition Products:	Hazardous decomposition products should not form at ambient conditions.

11. Toxicological Information

Routes of Exposure:	Eye contact, skin contact, and ingestion.
Acute Toxicity:	Oral LD ₅₀ : No data available. Dermal LD ₅₀ : No data available. Inhalation LC ₅₀ : No data available.
Skin Corrosion/Irritation:	No data available.
Serious Eye Damage/Irritation:	No data available.
Respiratory/Skin Sensitization:	Contains components that may cause an allergic skin reaction.
Germ Cell Mutagenicity:	No data available.
Carcinogenicity:	No data available.
Reproductive Toxicity:	No data available.
STOT, SE:	No data available.
STOT, RE:	No data available.
Other 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:	

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:	Not regulated.
IATA:	Not regulated.
IMDG:	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.
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US Regulations:

SARA 302 EHS Chemicals:	This material does not contain any SARA 302 extremely hazardous substances.
SARA (311/312) Hazard Categories:	Acute Health Hazard.
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.
California Proposition 65:	This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

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
IATA: International Air Transport Association
IMDG: International Maritime Dangerous Goods
LC₅₀: Lethal Concentration, half maximal
LD₅₀: Lethal Dose, half maximal
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
REL: Recommended Exposure Limit
SARA: Superfund Amendments and Reauthorization Act
STEL: Short-term exposure limit
STOT, RE: Specific Target Organ Toxicity, Repeated Exposure
STOT, SE: Specific Target Organ Toxicity, Single Exposure
TSCA: Toxic Substances Control Act
TWA: Time weighted average

Additional Information:

HMIS (U.S.A.): Health 1, Flammability 0, Reactivity 0, Protective Equipment b
NFPA (U.S.A.): Health 1, Flammability 0, Reactivity 0

Revision Notes:

Reviewed SDS, added Skin Sensitization, Category 1 classification. (11/22/2019)
Added hazard statement H317. (11/22/2019)
Added precautionary statements P261, P272, P280, P302 + P352, P333 + P313, P363, and P501.
(11/22/2019)
Updated sections 4, 8, 9, 10, 11, and 15. (11/22/2019)
October 27, 2014

Supersedes:

Prepared By: **Michael Carlo**

Preparation Date: **November 22, 2019**

Disclaimer

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End of SDS