

Material Safety Data Sheet

Material Name: BioFresh

*** Section 1 - Chemical Product and Company Identification ***

Manufacturer Information

F-MATIC Inc.
299 S Millpond Dr
Lehi, UT 84043

Phone: 801-768-2000
Fax: 888-878-8828

*** Section 2 - Hazards Identification ***

Emergency Overview

Can cause eye irritation in concentrated form.

Potential Health Effects: Eyes

May cause eye irritation in concentrated form.

Potential Health Effects: Skin

None anticipated under normal product use conditions.

Potential Health Effects: Ingestion

Not a likely route of exposure under normal product use conditions. May cause gastrointestinal irritation and diarrhea if swallowed.

Potential Health Effects: Inhalation

None anticipated under normal product use conditions.

HMIS Ratings: Health: 1 Fire: 1 HMIS Reactivity 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

*** Section 3 - Composition / Information on Ingredients ***

CAS #	Component
Not Available	Sodium Tetradecyl Sulfate
532-32-1	Sodium benzoate
68131-40-8	Alcohols, C11-15-secondary, ethoxylated
7732-18-5	Water
Trade Secret	Lemon Fragrance

*** Section 4 - First Aid Measures ***

First Aid: Eyes

Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.

First Aid: Skin

For skin contact, wash immediately with soap and water.

First Aid: Ingestion

If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting.

First Aid: Inhalation

Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration.

*** Section 5 - Fire Fighting Measures ***

General Fire Hazards

See Section 9 for Flammability Properties.

None

Hazardous Combustion Products

Not Determined.

Extinguishing Media

Use extinguishing media appropriate for surrounding fire.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear.

NFPA Ratings: Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Material Safety Data Sheet

Material Name: BioFresh

*** Section 6 - Accidental Release Measures ***

Containment Procedures

Contain the discharged material.

Clean-Up Procedures

Contain spilled material with a suitable absorbent material. Large spills can be flushed to sewage or disposal system.

Evacuation Procedures

Isolate area. Keep unnecessary personnel away.

Special Procedures

Follow all Local, State, Federal and Provincial regulations for disposal.

*** Section 7 - Handling and Storage ***

Handling Procedures

No special handling procedures necessary.

Storage Procedures

Keep this material in a cool, well-ventilated place. Enzymatic activity may be lost if temperatures exceed 130°F (55°C) or if pH exposure is below 2.5 or above 9.5.

*** Section 8 - Exposure Controls / Personal Protection ***

A: Component Exposure Limits

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

Engineering Controls

Local exhaust is suggested for use, where possible, in enclosed or confined spaces.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear chemical goggles.

Personal Protective Equipment: Skin

None necessary.

Personal Protective Equipment: Respiratory

Not normally needed.

Personal Protective Equipment: General

Eye wash fountain is recommended.

*** Section 9 - Physical & Chemical Properties ***

Appearance:	Brown Clear	Odor:	Characteristic
Physical State:	Liquid	pH:	3.0-4.0
Vapor Pressure:	As Water	Vapor Density:	1
Boiling Point:	212°F	Melting Point:	ND
Solubility (H2O):	Complete	Specific Gravity:	1.0-1.1
Octanol/H2O Coeff.:	ND	Flash Point:	None
Flash Point Method:	ND	Upper Flammability Limit (UFL):	None
Lower Flammability Limit (LFL):	None	Burning Rate:	None
Auto Ignition:	None		

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

This is a stable material.

Chemical Stability: Conditions to Avoid

None

Incompatibility

Oxidizing Material

Hazardous Decomposition

None

Material Safety Data Sheet

Material Name: BioFresh

Possibility of Hazardous Reactions

Will not occur.

*** Section 11 - Toxicological Information ***

Acute Dose Effects

A: General Product Information

No information available for the product.

B: Component Analysis - LD50/LC50

Sodium benzoate (532-32-1)

Oral LD50 Rat: 2100 mg/kg

Alcohols, C11-15-secondary, ethoxylated (68131-40-8)

Oral LD50 Rat: 32 mL/kg; Dermal LD50 Rabbit: 5660 µL/kg

Water (7732-18-5)

Oral LD50 Rat: >90 mL/kg

Carcinogenicity

A: General Product Information

No information available for the product.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

No information available for the product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Sodium benzoate (532-32-1)

Test & Species

96 Hr LC50 Pimephales promelas

484 mg/L [flow-through]

Conditions

96 Hr LC50 Pimephales promelas

>100 mg/L [static]

96 Hr EC50 Daphnia magna

>100 mg/L

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

All wastes must be handled in accordance with local, state and federal regulations.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: Not Regulated

*** Section 15 - Regulatory Information ***

US Federal Regulations

Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

Material Safety Data Sheet

Material Name: BioFresh

State Regulations

Component Analysis - State

None of this product's components are listed on the state lists from CA, MA, MN, NJ, PA, or RI.

Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

Additional Regulatory Information

Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Sodium benzoate	532-32-1	Yes	DSL	EINECS
Alcohols, C11-15-secondary, ethoxylated	68131-40-8	Yes	DSL	No
Water	7732-18-5	Yes	DSL	EINECS

* * * Section 16 - Other Information * * *

Other Information

The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.