SAFETY DATA SHEET

EVOZYME MULTIPURPOSE E CONCENTRATE 10X UF

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Revision 1
Revision Date: 15-Dec-2015

1. COMPANY AND PRODUCT IDENTIFICATION

Product Name	EVOZYME MULTIPURPOSE E CONCENTRATE 10X UF
Description	Turbid, straw colored liquid with characteristic odor.
Other means of Identification	None
Recommended Use	This is a concentrate. After proper dilution use as a bacterial treatment.
Uses advised against	No information available
Supplier Name	Genesis Biosciences, Inc.
Supplier Address	696 Winer Industrial Way Lawrenceville, GA 30046
Supplier Phone Number	+1 (770) 963 0959
Supplier Fax Number	+1 (770) 962 5431
Supplier Email	info@genesisbiosciences.com
Emergency Phone Number	+1 (800) 825 5810

2. HAZARDS IDENTIFICATION

Classification

This product is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Sensitization / Subcategory 1

GHS Label Elements, including Precautionary Statements

Signal Word Warning

Hazard Statements May cause an allergic skin reaction

Precautionary Statements – Prevention
Avoid breathing dust/fume/gas/mist/vapors/spray.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves and eye protection.

Precautionary Statements – Response
See First Aid Measures Section

Skin
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.

Precautionary Statements – Storage
None

Precautionary Statements – Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazards not otherwise classified (HNOC)
Not applicable

Other information
Causes mild skin irritation
Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Interactions with Other Chemicals
No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a buffered and preserved aqueous solution containing surfactants, builders, stabilized enzymes and naturally-occurring viable bacterial cultures.

HAZARDOUS INGREDIENTS

Name	CAS #	% BY WEIGHT	TRADE SECRET
1,2-Benzisothiazolin-3-one	2634-33-5	0.15 – 0.35	*

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

First aid measures

General Advice Show this safety data sheet to the Doctor in attendance

Eye Contact Rinse thoroughly with plenty of water, also under eyelids. If symptoms persist, call a physician.

Skin Contact Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions, see a physician.

Inhalation Remove to fresh air.

Ingestion Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Itching. Rashes. Hives.

Indication of any immediate medical attention and special treatment needed

Notes to Physician May cause sensitization of susceptible persons. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

CAUTION: Use of water spray when fighting fire may be inefficient.

Specific Hazards Arising from the Chemical

Product is or contains a sensitizer. May cause sensitization by skin contact.

Uniform Fire Code Sensitizer: Liquid

Hazardous Combustion Products

Carbon oxides.

Explosion Data

Sensitivity to Mechanical Impact No
Sensitivity to Static Discharge No

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus, pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with skin and eyes

Environmental precautions

Refer to protective measures listed in Sections 7 and 8

Methods and material for containment and cleaning up

Containment Prevent further leakage or spillage if safe to do so.
Cleaning up Pick up and transfer to properly labelled containers. Soak up with inert absorbent material.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practices. Avoid contact with skin and eyes.

Conditions for safe storage, including any incompatibilities

Storage Keep container tightly closed.
Incompatible Products Strong acids and alkalis, and strong oxidizing agents may denature stabilized enzymes and react with product and inactivate bacterial cultures.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992)

Appropriate Engineering Controls

Engineering Measures Showers, Eyewash stations, Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection	None required for consumer use. If splashes are likely to occur, wear safety glasses with side-shields.
Skin and Body Protection	None required for consumer use. Repeated or prolonged contact: Wear protective gloves and protective clothing.
Respiratory Protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practices. Take off contaminated clothing and wash before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State	Liquid
Appearance	Straw colored
Odor	Characteristic
Odor threshold	No information available

Property	
pH	6.5 – 8.8
Melting/Freezing Point	No data available
Boiling Point/ Boiling Range	100 °C / 212 °F
Flash Point	None
Evaporation Rate	No data available
Flammability (solid, gas)	None
Upper/Lower flammability Limits	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Specific Gravity	1.01
Water Solubility	Dispersible
Solubility in other solvents	No data available
Partition coefficient: n-octanol/water	No data available
Autoignition Temperature	No data available
Viscosity	Water-thin
VOC Content (%)	Negligible

10. STABILITY AND REACTIVTY

Reactivity
No data available.

Chemical Stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous Polymerization
Hazardous polymerization does not occur.

Conditions to Avoid
Do not exposed to extreme temperatures for long periods of time. Close containers when not in use.

Incompatible Materials
Strong acids and alkalis, and strong oxidizing agents may denature stabilized enzymes and react with product and inactivate bacterial cultures.

Hazardous Decomposition Products
Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the mixture is not available.
Eye Contact	Specific test data for the mixture is not available.
Skin Contact	Specific test data for the mixture is not available. May cause sensitization by skin contact.
Ingestion	Specific test data for the mixture is not available.

Component Information No information available.

Information on toxicological effects

Symptoms Itching. Rashes. Hives

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization May cause sensitization of susceptible persons. May cause sensitization by skin contact.

Mutagenic Effects No information available.

Carcinogenicity Contains no ingredient listed as a carcinogen.

Reproductive Toxicity No information available.

STOT – single exposure No information available.

STOT – repeated exposure No information available.

Chronic Toxicity No known effect based on available information.
Target Organ Effects Skin.

Aspiration Hazard No information available.

Numerical measures of Toxicity
Not applicable

12. ECOLOGICAL INFORMATION

Eco-toxicity, Persistence and Degradability, and Bioaccumulation

This product is not expected to be dangerous to the environment with respect to mobility, persistency and biodegradability, bio-accumulative potential, aquatic toxicity, and other data related to eco-toxicity.

Other adverse effects

None known.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal Methods This material, as supplied, is not a hazardous waste according to Federal Regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered . Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult with the appropriate State, Regional, or Local regulations for additional requirements.

Contaminated Packaging Dispose of contents/containers in accordance with local regulations.

14. TRANSPORTATION INFORMATION

DOT Not Regulated
Proper Shipping Name Not Regulated
Hazard Class N/A

TDG Not Regulated
MEX Not Regulated
ICAO Not Regulated
IATA Not Regulated
IMDG/IMO Not Regulated
RID Not Regulated
ADR Not Regulated
ADN Not Regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL	Not all components are listed on the DSL

TSCA – United States Toxic Substances Control Act – Section 8(b) Inventory
DSL – Canadian Domestic Substances List

US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical which is subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or State level pertaining to releases of this material.

US State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals

US State Right-to-Know Regulations
This product does not contain any substances above threshold limits that are regulated by State right-to-know.

16. OTHER INFORMATION

Hazardous Material Information System (HMIS)	**HEALTH**	**1**
	FLAMMABILITY	**0**
	PHYSICAL HAZARD	**0**
	PERSONAL PROTECTION	**B**

ADDITIONAL INFORMATION

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication, however, no guarantee is made to its accuracy. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any other process.

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END OF SDS