

# MATERIAL SAFETY DATA SHEET



## Biozyme SDS

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### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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Chemical Name                      Biozyme

Blend of Sugars and Enzymes      ComplexBlend

Manufacturer: Genesis Industrial Pty Ltd, 6 Ginger Street, Paget 4740 Phone 07 4999 9743

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Trade Name – **Biozyme**

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#### **Non Dangerous, Non-Hazardous Goods**

Synonyms: DOT Identification No.    N/A

Liquid Supplement for biological waste systems

Company Identification:

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### 2. COMPOSITION, INFORMATION ON INGREDIENTS

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Component(s),                      No Hazardous Ingredients  
Chemical Name

**See ingredient tag page 4**

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### 3. HAZARDS IDENTIFICATION

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Emergency Overview - Refers to Bulk Storage Facilities

This material should be stored in a vented tank designed to contain a material with a specific gravity of 1.3 or greater. Material can ferment if excessive moisture contamination is allowed. Fermentation can yield carbon dioxide with possible traces of ethanol or volatile fatty acids (e.g. acetic, propionic, lactic, or butyric) and if exposed to a spark or flame may result in an explosion. These conditions should be avoided. If maintenance of tank requires entry by personnel, OSHA's Confined Space standard shall be complied with. If welding is to be performed, the tank should be gas freed and only certified welders shall perform welding operations.

#### Potential Health Effects

Eyes - Mild irritant

Skin - None

Inhalation – Insufficient oxygen may be present in vessels containing the product due to the generation of carbon monoxide during fermentation

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### 4. FIRST AID MEASURES

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Eyes: Flush eyes for 15 minutes.

Skin: Wash with soap and water.

Ingestion: No data

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### 5. FIRE FIGHTING MEASURES

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Flashpoint (Method used)                      Flammable Limits in Air

Non-flammable                                      Non-flammable  
Non-combustible                                    Non-combustible

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Extinguishing Agents - NA

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Unusual Fire and Explosion Hazards – Fermentation occurs when diluted with water and is accelerated by heat. During fermentation, carbon monoxide with possible traces of ethanol or volatile fatty acids (e.g., acetic, propionic, lactic, or butyric) is given off, which produces inhalation hazards and possible explosion hazards.

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### 6. ACCIDENTAL RELEASE MEASURES

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Steps to be taken in Case Material is Released or Spilled

Small spills - Stop the source of the spill. Recover as much product as possible for reuse. Absorb remaining spill and dispose solids in waste container.

Large spills - Stop the source of the spill. Create diversionary structures to minimize the extent of the release. Prevent the release from entering a waterway or sewer. Recover useable product. Absorb remaining spill and dispose of at an approved facility such as a municipal landfill or land application site.

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### 7. HANDLING AND STORAGE

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Bulk material should be stored in a vented tank designed to contain a material with a specific gravity of 1.3 or greater. Material can ferment if excessive moisture contamination is allowed.

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### 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

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Respiratory Protection - None

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Ventilation – Virtually non-fuming, however in a very confined space, provide adequate ventilation

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Skin Protection - Rubber gloves

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Eye Protection - Safety glasses

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Hygiene - Wash any exposed area promptly with soap and water. Launder contaminated clothing.

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Other Control Measures - None

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance  
Dark brown syrupy liquid

Odor  
Sweet

Physical State  
Liquid

Specific Gravity  
1.1-1.2

Boiling Point  
Very high

Freezing/Melting Point  
Varies

Vapor Pressure  
Low

% Volatile, by Volume  
No data

Evaporation Rate  
No data

Vapor Density in Air  
Water vapor only

Solubility in Water  
pH

Soluble  
5.5 - 6.0

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### 10. STABILITY AND REACTIVITY

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Chemical Stability - Stable

Conditions to Avoid – Excess moisture or heat. Unventilated containers.

Incompatibility with Other Materials - Reacts with concentrated Nitric acid or concentrated Sulphuric acid.  
Ferments when diluted with water.

Hazard Decomposition Products – Carbon monoxide, alcohol or fatty acid vapors

Hazardous Polymerization - NA

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### 11. ECOLOGICAL INFORMATION

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Prevent releases to land or natural water bodies. May result in high Biological Oxygen Demand (BOD) and potential oxygen depletion of aquatic systems.

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### 12. DISPOSAL CONSIDERATIONS

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Dispose of waste material at an approved municipal landfill or land application site.

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### 13. TRANSPORT INFORMATION

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Hazardous Materials Description/ Proper Shipping Name - NA

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DOT Hazard Class - NA

DOT Identification Number - NA

X This product is not a DOT hazardous material.

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### 4. REGULATORY INFORMATION

Discharges to water are regulated by the Environmental Protection Authority

### 15. OTHER INFORMATION

None.

Date of Preparation: 30<sup>th</sup> June 2018

Prepared by: David Yates

### OTHER INFORMATION

All information contained in this Material Safety Data Sheet and the health, safety and environmental information are considered to be accurate to the best of our knowledge as of the issue date specified above. However, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the data and information contained in this data sheet. Health and safety precautions and environmental advice noted in this data sheet may not be accurate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations; the Manufacturer or Distributor accepts no responsibility for any injury, loss or damage, resulting from abnormal use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material.

Components	Indicative average	Usual range
Water	20	17-25
Sucrose	35	30-40
Dextrose (Glucose)	7	4-9
Laevulose (Fructose)	9	5-12
Other reducing substances	3	1-5
Other carbohydrates	4	2-5
Ash	12	7-15
Nitrogenous compounds	4.5	2-6
Non-nitrogenous acids	5	2-8
Wax, Sterols and Phospholipids	0.4	0.1-1
Riboflavin	.025	.
Enzyme Mixture	10	10
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