

SAFETY DATA SHEET

Microbial BioSolutions Safety Information Template

[PRODUCT_NAME] | [PRODUCT_CODE] | [VERSION_DATE]

Use this file as a master template. Replace all bracketed fields before uploading to the HYGEM website or sharing with agencies.

Important: This template follows a 16-section SDS structure for website download. Replace placeholders with product-specific safety, regulatory and transport data before release.

Section 1: Identification

Product Identifier	[PRODUCT_NAME]
Product Code	[PRODUCT_CODE]
Recommended Use	[e.g., microbial product for animal nutrition / aquaculture / wastewater / composting / environmental treatment]
Restrictions on Use	[None known / Professional use only / Use according to approved label]
Manufacturer / Supplier	HYGEM / [Legal company name]
Address	[Company address]
Telephone	[Company telephone]
Emergency Telephone	[Emergency contact or None]

Section 2: Hazard(s) Identification

GHS Classification	[Not classified as hazardous / TBD]
Signal Word	[None / Warning / Danger]
Hazard Statements	[None known / TBD]
Precautionary Statements	Avoid ingestion, eye contact and prolonged skin contact. Wash hands after handling.
Required Label Elements	[None required / TBD]
Other Hazards	[May cause mild gastric or intestinal upset if ingested; may cause temporary eye irritation]

Section 3: Composition / Information on Ingredients

Ingredient / Component	CAS No.	Concentration	Classification
Naturally occurring / selected microorganisms	Not applicable	[TBD]	[Non-pathogenic; non-hazardous - confirm]
Fermentation medium and metabolites	Mixture	[TBD]	[Non-hazardous - confirm]
Water / carrier	7732-18-5	[TBD]	Not classified
Hazardous components	-	[None / TBD]	[None / TBD]

Section 4: First-Aid Measures

Inhalation	Move person to fresh air if discomfort occurs. Seek medical attention if symptoms persist.
Skin Contact	Wash with soap and water. Remove contaminated clothing if needed.
Eye Contact	Rinse cautiously with clean water for at least 10-15 minutes. Seek medical attention if irritation persists.
Ingestion	Do not induce vomiting. Rinse mouth and drink water. Seek medical advice if large amount is swallowed or discomfort occurs.
Most Important Symptoms	[May cause mild gastric/intestinal upset or temporary eye irritation]

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media	[Use media appropriate for surrounding fire / Not applicable for water-based liquid]
Unsuitable Extinguishing Media	[None known]
Specific Hazards	[None known / product is not expected to present unusual fire or explosion hazards]
Protective Equipment	Firefighters should use standard protective equipment suitable for surrounding fire.

Section 6: Accidental Release Measures

Personal Precautions	Avoid slipping hazard. Wear gloves and safety glasses for bulk spill cleanup.
Environmental Precautions	Prevent uncontrolled release to sensitive environments if required by local regulation.
Cleanup Method	Absorb or collect spill. Clean area with water, soap or approved disinfectant.
Waste Disposal	Dispose of according to local regulations and product-specific requirements.

Section 7: Handling and Storage

Handling	Use routine hygiene practices. Avoid eye contact and ingestion. Keep container closed when not in use.
Storage	Store in tightly closed original container at [TBD temperature range]. Protect from freezing, overheating and direct sunlight.
Incompatible Materials	[Strong disinfectants, oxidizers, extreme acid/alkali conditions - confirm]

Section 8: Exposure Controls / Personal Protection

Exposure Limits	[None established / TBD]
Engineering Controls	General ventilation is normally sufficient.
Respiratory Protection	[Not normally required / use mask if aerosols or dust may be generated]
Eye Protection	Safety glasses recommended.
Skin Protection	Gloves recommended for bulk handling.
Hygiene Measures	Wash hands after handling and before eating or drinking.

Section 9: Physical and Chemical Properties

Property	Specification / Placeholder
Appearance	[e.g., light pink to tan liquid / brown fermented liquid / powder]
Odor	[Mild / fermentation odor]
pH	[TBD]
Boiling Point	[Approx. 100°C for water-based liquid / Not applicable]
Melting / Freezing Point	[Approx. 0°C for water-based liquid / TBD]
Specific Gravity	[TBD]
Solubility in Water	[Water soluble / dispersible / insoluble]
Flash Point	[Not applicable / TBD]
Viscosity	[TBD]

Section 10: Stability and Reactivity

Reactivity	[No hazardous reactivity expected / TBD]
Chemical Stability	[Stable under recommended storage conditions]
Possibility of Hazardous Reactions	[None known]
Conditions to Avoid	Extreme temperatures, freezing, direct sunlight, contamination and incompatible chemicals.
Hazardous Decomposition Products	[None known under normal use]

Section 11: Toxicological Information

Likely Routes of Exposure	Ingestion, eye contact, skin contact and inhalation of aerosol/dust if generated.
Acute Toxicity	[Not classified / TBD]
Skin Corrosion/Irritation	[Not classified; may cause mild irritation in sensitive individuals]
Eye Damage/Irritation	[May cause temporary irritation]
Respiratory or Skin Sensitization	[Not expected / TBD]
Carcinogenicity	[No components listed by IARC/NTP/OSHA / TBD]

Section 12: Ecological Information

Ecotoxicity	[Not expected to be harmful under intended use / TBD]
Persistence and Degradability	[Biodegradable / biological product - confirm]
Bioaccumulative Potential	[Not expected / TBD]
Mobility in Soil	[TBD]
Other Adverse Effects	[None known / TBD]

Section 13: Disposal Considerations

Dispose of unused product, contaminated absorbents and containers according to local, regional and national regulations. Do not reuse empty containers unless properly cleaned and authorized for reuse.

Section 14: Transport Information

UN Number	[Not regulated / TBD]
Proper Shipping Name	[Not regulated / TBD]
Transport Hazard Class	[Not regulated / TBD]
Packing Group	[Not applicable / TBD]
Environmental Hazards	[No / TBD]
Special Precautions	Keep containers upright and closed. Protect from extreme temperatures.

Section 15: Regulatory Information

[Insert country-specific registration, feed additive, environmental release, TSCA/EPA, EU, Taiwan, China, ASEAN or other applicable regulatory notes. Confirm before publication.]

Section 16: Other Information

Prepared By	[Department / QA / Regulatory Affairs]
Revision Date	[YYYY-MM-DD]
Revision Number	[X.X]
Disclaimer	The information is provided for safety guidance and is based on data believed to be accurate at the time of preparation. Users must verify suitability for their specific application and comply with local regulations.