SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
US - OSHA Hazard Communication Standard (29 CFR 1910.1200)

SECTION 1: Identification

1.1 Product identifier: : BFWH

Chemical Name: : mother ferment diluted

CAS No : Not Applicable (Mixture)

Product description : All Surface Cleaner Dip and Spray

Product type : Liquid

1.2. Recommended uses : All-purpose surface cleaner for household, industrial and institutional use.

Restrictions on use : Test compatibility of product with rubber or plastic before use.

1.3 Details of the supplier of the safety data sheet: Supplier:

Name : Bioferment Technology
2660 Jewett Lane, Sanford, FL
32771

Information contact : Tel: +1 305-586-6776

E-Mail address of person responsible for this SDS : mark@bioferment.tech

1.4 EMERGENCY TELEPHONE NUMBER: 1-800-424-9300 (Chemtrec)

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Classification according to 29 CFR 1910.1200 (HazCom 2012):
Not classified as hazardous.

The diluted-use solution does not meet the criteria for classification in any hazard class under the OSHA Hazard Communication Standard.

2.2 Label elements

Labelling according to 29 CFR 1910.1200:

Hazard pictograms: None required
Signal word: None required
Hazard statements: None required
Precautionary statements: None required

2.3 Other hazards

This product, when diluted for use as directed, is not hazardous according to OSHA Hazard Communication Standard 29 CFR 1910.1200.

This Safety Data Sheet applies to the diluted-use solution only. The concentrate is classified separately and has its own Safety Data Sheet.

Although not classified as hazardous, good industrial hygiene practices should be followed.

SECTION 3. Composition/information on ingredients

3.1 Substances/Mixture **:** Mixture

Substance name	CAS No.	Weight %
Proprietary Glycolipid Biosurfactant – Trade Secret.	*N/A*	*5-15*
Proprietary food grade organic acids and chelates. Trade Secret	N/A	20

Additional information:

Occupational exposure limits, if available, are listed in Section 8. Full text of H- phrases: see SECTION 16.2

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation **:** If breathing is affected, move to fresh air.

If In Eyes: **:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

Skin contact **:** Wash with plenty of water.

Ingestion **:** Do not induce vomiting unless directed to do so by medical personnel. Never give

anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

Self-protection of the first aider **:** No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation **:** No specific data

Eye contact **:** Pain, local redness, swelling.

Skin contact **:** Skin redness, itching, swelling.

Ingestion **:** No specific data

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor **:** Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Special treatment : Not known.

SECTION 5: Firefighting measures

5.1 Suitable extinguishing media : Dry chemical, water spray, foam, or carbon dioxide.

5.2 Special hazards arising from the substance or mixture : When heated to decomposition, it emits acrid smoke and irritating fumes.

5.3 Advice for fire-fighters : As in any fire, wear self-contained breathing apparatus, pressure-demand, and full protective gear.

SECTION 6: Accidental release measures

6.1 Personal precautions : Wear personal protective equipment stated in Section 8.

Non-emergency personnel : No action shall be taken involving any personal risk or without suitable training.

Emergency responders : If specialized clothing is required to deal with the spillage, take note of any information from Section 8.

6.2 Environmental precautions : Avoid release to the environment if this is not the intended use.

6.3 Methods and material for containment and clean up : Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. Use a water rinse for final clean-up.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (Section 8). Avoid unnecessary long-term contact with skin, eyes, and clothing. Do not taste or swallow. Use with adequate ventilation. Avoid unnecessary long-term breathing of mists or vapors. Remove and wash contaminated clothing and footwear before reusing. Eating, drinking, and smoking are prohibited in areas where this material is handled, stored, and processed.

7.2 Conditions for safe storage, including any incompatibilities

Storage requirements : Keep out of reach of children. Keep container(s) stored in cool, well-ventilated area.

Incompatibilities : Avoid strong oxidizing agents and incompatible cleaning chemicals..

Packaging materials : Unlined steel drums or plastic totes.

7.3 Specific end uses

Recommendations : Best used within 12 months of manufacture date. See label for manufacture and expiration date.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits: No OSHA PEL or ACGIH TLV established for the mixture or its components at reportable concentrations.

Biological Limit Values: None established.

8.2 Exposure Controls

Appropriate Engineering Controls: Good general ventilation should be sufficient to control airborne levels under normal conditions of use.

Eye / Face Protection: Wear safety goggles or eye protection to prevent exposure to liquid splashes or mists.

Skin and Body Protection: None normally required under expected conditions of use.

Hand Protection: Wear rubber, nitrile, or latex gloves if prolonged or repeated contact is expected.

Respiratory Protection: Not normally required under expected conditions of use.

Thermal Hazards: None known.

Environmental Exposure Controls: No special environmental controls required under normal use conditions.

SECTION 9. Physical and chemical properties

Appearance: Clear to hazy liquid

Color: Amber

Odor: Mild, earthy

pH (neat): 3.0 – 5.5

Density (20°C): 1.07 g/mL

Flash Point: Not flammable (aqueous solution)

Flammability: Not flammable

Relative Density (20°C): 1.07 g/mL

Solubility: Completely soluble in water

Vapor Pressure: Similar to water

Vapor Density: Similar to water

Boiling Point: Approximately 100°C (212°F)

Freezing Point: Approximately 0°C (32°F)

All other physical and chemical properties: Not available or not applicable for this mixture.

SECTION 10: Stability and reactivity

10.1 Reactivity : Stable under normal conditions of storage and uses.

10.2 Chemical stability : Product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : Conditions to avoid: Extreme heat and incompatible materials.

10.5 Incompatible materials : Strong acids, bases, oxidative agents, and quaternary disinfectants can degrade/inactivate product. Test compatibility of product with rubber, plastic, or metal compounds and acids before full scale use.

10.6 Hazardous decomposition products: : Carbon oxides (CO and CO_2) may be formed under fire conditions.

SECTION 11: Toxicological Information

11.1 Information on Toxicological Effects

Acute Toxicity

Oral (mixture as diluted for use):
Based on available component information and mixture evaluation at the use dilution, the product is not classified for acute oral toxicity.

Dermal:
Not expected to present an acute dermal toxicity hazard at the use dilution.

Inhalation:
Not expected to present an acute inhalation toxicity hazard under normal conditions of use. The diluted-use product is an aqueous solution with low volatility.

Likely Routes of Exposure

Eye contact, skin contact, inhalation of mists, and ingestion.

Skin Corrosion/Irritation

Not classified. The diluted-use solution is not expected to cause skin irritation under normal conditions of use.

Serious Eye Damage/Eye Irritation

Not classified. The diluted-use solution is not expected to cause eye irritation under normal conditions of use.

Respiratory or Skin Sensitization

No data available for the diluted mixture. Based on component information and concentration at use dilution, the product is not expected to be a sensitizer.

Germ Cell Mutagenicity

No data available. Not expected to present a mutagenicity hazard based on component information and concentration.

Carcinogenicity

No components are present at concentrations requiring classification or reporting as carcinogens under IARC, NTP, or OSHA.

Reproductive Toxicity

No data available. Not expected to present a reproductive toxicity hazard based on component information and concentration.

Specific Target Organ Toxicity (Single Exposure)

No data available. Not expected to present a hazard at the use dilution.

Specific Target Organ Toxicity (Repeated Exposure)

No data available. Not expected to present a hazard at the use dilution.

Aspiration Hazard

Not expected to present an aspiration hazard. The product is an aqueous liquid mixture with low viscosity and low volatility.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity : Acute LC50/EC50: Not classified*.

12.2 Persistence and degradability : Expected to be readily biodegradable.

12.3 Bioaccumulative potential : Not expected to bioaccumulate.

12.4 Mobility in soil : Not available.

12.5 Results of PBT and vPvB assessment : None known.

12.6 Other adverse effects : None known.

Additional ecological information

Use with good industrial practice, avoiding product dispersion into the environment.

*: If no test data exists, the criteria for mixture classification has to be used (calculation method). Results were obtained via said calculation method.

SECTION 13: Disposal considerations

13.1 Waste treatment methods : Dispose of contents/container in accordance with local, regional, national, and international regulations. Avoid release to the environment.

13.2 Special precautions : Avoid spilled material and dispersal into soil and drains.

SECTION 14: Transport information

UN Number: Not regulated.
UN Proper Shipping Name: Not regulated as dangerous goods.
Transport Hazard Class(es): Not regulated.
Packing Group: Not applicable.
Environmental Hazards: Not classified as environmentally hazardous for transport.
Special Precautions: None known.

Transport in Bulk (MARPOL/IBC): Not applicable for packaged goods.

SECTION 15: Regulatory information

US Federal Regulations:
All components are listed or exempt from listing under the U.S. Toxic Substances Control Act (TSCA).

EU Regulations:. Classification under Regulation (EC) No 1272/2008 (CLP) would be determined by the EU importer.

Chemical Safety Assessment: A Chemical Safety Assessment has not been carried out for this mixture.

SECTION 16: Other Information

16.1 Abbreviations and acronyms

ATE = Acute Toxicity Estimate

ADN = European Agreement concerning the International Carriage of Goods by Inland Waterways

ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road

CAS# = Chemical Abstracts Service number

CLP = Classification, labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

DNEL = Derived No Effect Level

EC = European Community

EC-No. = EINECS and ELINCS Number (see EINECS and ELINCS)

EEC = European Economic Community

EINECS = European Inventory of Existing Commercial Substances

ELINCS = European List of Notified Chemical Substances

EU = European Union

GHS = Globally Harmonized System

IATA = International Air Transportation Association

ICAO-TI = Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG = International Maritime Dangerous Goods

LC50 = Lethal Concentration to 50% of a test population

LD50 = Lethal Dose to 50% of a test population (Median Lethal Dose)

N/A = Not available

OECD = Organization for Economic Co-operation and Development

PEL = Permissible Exposure Limit

PNEC = Predicted No Effect Concentration(s)

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals (EC No. 1907/2006)

CLP = Classification, Labelling and Packaging Regulation (EC No. 1272/2008)

RID = Regulations concerning the International Carriage of Dangerous Goods by Rail

SDS = Safety Data Sheet UN = United Nations

vPvB = Very Persistent and Very Bioaccumulative

European Chemicals Agency, Classification Legislation, 2015
OSHA Hazard Communication– Occupational Safety and Health Administration,

Hazard Communication: Hazard Classification Guidance for Manufacturers, Importers, and Employers, 2016

16.2 Relevant H-, R- phrases (number and full text)

Full text of abbreviated: H320 – Causes eye irritation

H statements: H320 – Causes eye irritation

Classification | Justification

Eye Irritation Category 2B | Based on mixture evaluation and component concentration under 29 CFR 1910.1200 (HazCom 2012)