Safety Data Sheet

Section 1 - Chemical Product and Company Identification

Product Name: Healthy Farms® Feed Spill Liquefier
Other Identifier: Product numbers 32000
Description: Proprietary GRAS microbial isolates, non-pathogenic, non-genetically altered, on a natural carrier; selective enzymes; and natural trace elements to enhance microbial growth, including a proprietary metallic ion.
Recommended Use: Remediation of feed and organic matter
Form: Powder
Supplier Identification: **Bioverse, Inc.**
2220 Research Lane,
Worthington, MN 56187
866-272-3775

Website: myhealthyfarms.com

Email: support@bioverse.com
Emergency Number: Chemtrec 1-800-424-9300 (Emergency 24 hours); Outside US 1-703-527-3887
Chemtrec Administrative Office Telephone Number 1-800-262-8200

Section 2 – Hazards Identification

Hazard Class: None
Signal Word: None
Hazard Statement: None
Precautionary Statement:
Do not breathe dust. Do not get on skin or clothing. Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Keep container closed and sealed until ready for use. Wash thoroughly after handling. Do not ingest.
Hazard Symbol: None

Section 3 - Composition/Information on Ingredients

CAS#	Chemical Name	EINECS/ELINCS	IUB	% by weight
9000-90-2	Alpha amylase	232-565-6	3.2.1.1	< 0.1%
9012-54-8	Cellulase	232-734-4	3.2.1.4	< 0.1%
9001-82-1	Lipase	232.619..9	3.1.1.3	< 0.01%
9014-01-1	Protease (subtilisin)	232-752-2	3.4.21.62	< 0.05%

Other components: remaining components of this product are proprietary, nonhazardous and/or are present at concentrations below reportable limits.

Section 4 – First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids; get medical aid.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: Never give anything by mouth to an unconscious person. Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of water.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Section 5 – Fire Fighting Measures

Fire Fighting Extinguishing media: Water, foam, chemical and carbon dioxide

Fire Fighting Chemical Hazards: May cause allergic respiratory reaction

Fire Fighting Protective Actions: Not available

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Contact unnecessary and unprotected personnel from entering area. Provide sufficient ventilation and remove contaminated clothing. Do not walk through spilled material. Avoid breathing dust.

Environmental precautions: Removal by mechanical means (ie vacuuming with HEPA filters) is preferred. Solid can be placed in sealed containers for disposal. Dilute remainder with plenty of water avoiding the formation of aerosols and flush to an approved drain according to local guidelines.

Methods and material for containment and cleaning up: Remove spilled material immediately to reduce the formation of dust using mechanical means (ie vacuuming with HEPA filters) is preferred. Solid can be placed in sealed containers for disposal. Dilute remainder with plenty of water avoiding the formation of aerosols and flush to an approved drain according to local guidelines.

Section 7 - Handling and Storage

Precautions for safe handling: Segregate from acids, peroxides, and combustible organic materials or easily oxidizible materials. Keep from freezing. Protect against physical damage. Keep away from heat and flame.

Conditions for safe storage including any incompatibilities: Keep away from heat and flame. Store in a cool dry area in closed original containers.

Hygiene: not specified

Section 8 - Exposure Controls/Personal Protection

Occupational exposure limits: None established
Biological limit values: None established
Appropriate engineering controls:
Eye/face protective equipment:
Skin protection:
Respiratory protection:

Section 9 - Physical and Chemical Properties

Physical State:	Solid
Appearance:	Tan free flowing powder
Odor:	Fermentation odor
Odor threshold:	Not established
pH:	Not established.
Freezing/Melting Point:	Not established.
Initial boiling point and boiling range:	Not available.
Flash Point:	Not available.
Evaporation Rate:	Not available.
Flammability:	Not available
Upper/lower flammability or exposure limits:	Not available
Vapor Pressure:	Not available.
Vapor Density:	Not available
Relative Density:	Not established
Solubility:	Dispersible in water
Partial coefficient: n-octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available
Explosive properties:	Not available
Oxidizing properties:	Not available

Other Information: No additional information.

Section 10 - Stability and Reactivity

Chemical Stability:	Stable.
Hazardous Reactions:	None identified
Conditions to Avoid:	None known
Incompatible materials:	None known
Hazardous decomposition products:	None

Section 11 - Toxicological Information

Acute toxicity: Ingestion of this material is not known to result in adverse effects. No specific data available
Skin Corrosion/irritation: this material may be a mild skin irritant.
Serious eye damage/irritation: overexposure to the eye is characterized by irritation
Respiratory or skin sensitization: overexposure by inhalation may cause sensitization and allergic response in hypersensitive individuals; not a skin sensitizer
Germ cell mutagenicity: Not available.
Carcinogenicity: Not listed by IARC, OSHA, or NTP
Reproductive toxicity: No data available
Aspiration hazard: see respiratory sensitization

Section 12 - Ecological Information

Ecotoxicity: No specific data available
Persistence and degradability: No specific data; components are considered to be biodegradable.
Bioaccumulation potential: No specific data available; components considered to be biodegradable will not bioaccumulate.
Mobility in soil: No data available
Results of PBT and vPvB assessment: No specific data available; the substance does not meet the criteria for characterization as either PBT or vPvB
Other adverse effects: None known

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

Section 14 - Transport Information

UN Number: None assigned; the substance is not classified as hazardous for transport.
UN Proper Shipping Name: Not applicable.
Transport Hazard classes: Not applicable.
Packing Group: Not applicable.
Transport Environmental Hazards: The substance is not classified as hazardous for transport.
Transport Special Precautions for User: The substance is not classified as hazardous for transport.
Transport in Bulk (MARPOL): The substance is not classified as hazardous for transport.

Section 15 - Regulatory Information

HMIS Hazards Ratings:

Health	**1**
Flammability	**0**
Reactivity	**0**
Personal Protection:	**E**

Section 16 - Additional Information

SDS Creation Date: 03/25/2015
SDS Review Date: 03/25/2015

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