

SAFETY DATA SHEETS

This SDS packet was issued with item:

078688740

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078757084



Revitalizing nutrition & health

Safety Data Sheet

1. Product and Company Identification

Product Name:

Rumen Yeast Caps

Product Code:

20818179, 20818175, 20818170, 20818176

Use of the Substance/Preparation:

For use as feed supplement for bovine animals

Manufacturer:

Form A Feed
740 Bowman Street
Stewart, MN 55385

Emergency Telephone Number:

1-877-466-6455

SDS Information:

TechMix, LLC
740 Bowman Street
Stewart, MN 55385
1-877-466-6455

info@techmixglobal.com
www.techmixglobal.com

2. Hazard Identification

Classification: Organic Dust

Label Elements: Signal Word: N/A due to FDA labeling exemption

Hazard Statement(s): May create a flash fire or explosion hazard if dust of certain particle size is suspended in air at sufficient concentration IN A CONFINED SPACE and exposed to an ignition source.

Precautionary Statement(s): May be mechanical eye irritant. Rinse eyes with water for several minutes. Avoid breathing dust. Excessive inhalation may affect nose throat, and lungs. Feed dust may burn if suspended in air and may create a flash fire/ explosion hazard. Avoid ignition sources.

Emergency Overview: May be mechanical irritant to eyes. Excessive inhalation of feed dusts may affect nose throat, and lungs. May form combustible dust concentration in air; see "Explosion Hazard" below.

Explosion Hazard: Feed is generally considered not hazardous, but dust generated through downstream activities that may reduce its particle size (e.g., shipping, handling, transfer to bins, etc.) may create a hazardous condition.

If exposed to an ignition source, feed dust may burn. Airborne dust in sufficient concentrations when exposed to an ignition source may flash or, in a confined situation, may fuel an explosion.

3. Composition/Information on Ingredients

Ingredients: Lactose, Niacinamide, Active Dry Yeast, Dried Aspergillus oryzae Fermentation Extract, Wheat Bran, Sodium Silico Aluminate, Vegetable Oil, Sucrose, Dried Lactobacillus acidophilus Fermentation Product, Dried Enterococcus faecium Fermentation Product, Dried Bacillus subtilis

Fermentation Product, Dried Bacillus licheniformis Fermentation Product, Dried Biofidobacterium animalis Fermentation Product, Choline Chloride, Calcium Carbonate, Corn Distillers Dried Grains with Solubles, Dried Candida rugosa Fermentation Extract, Dried Aspergillus niger Fermentation Extract, Dried Bacillus subtilis Fermentation Extract, Artificial Flavors, Ascorbic Acid, Pyridoxine Hydrochloride, Folic Acid, Thiamine Mononitrate, Vitamin E Supplement, Calcium Panthenate, Riboflavin, Vitamin A Acetate, Vitamin D3 Supplement, Biotin, Vitamin B12 Supplement, Ethoxyquin (preservative), and Biotin.

4. First Aid Measures

Inhalation: Remove from exposure and move individual to fresh air. If not breathing give artificial respiration. If breathing difficult, give oxygen. Get medical attention if cough or other symptoms appear.

Ingestion: Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cups of milk or water. Get medical aid if irritation or symptoms occur.

Skin Contact: Flush with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists. Wash clothing before reuse.

Eye Contact: Flush with water for 15 minutes occasionally lifting the upper and lower eyelids. If irritation develops, get medical attention.

5. Fire Fighting Measures

Hazardous Combustion Products: Dust

Special Fire Fighting Procedures: Wear full protective clothing and NIOSH approved self-contained breathing apparatus with a full face piece operated in the positive pressure or pressure demand mode.

Unusual Fire and Explosion Hazards: None

6. Accidental Release Measures

Clean up with soft bristle broom(s) and use as intended if not contaminated. If contaminated, dispose of properly. Clean up all spills immediately and observe precautions regarding personal protective equipment.

Dust deposits should be maintained to a minimum on surfaces, as these could form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., cleaning dust surfaces with compressed air in the presence of ignition source should not be allowed). Non-sparking tools should be used.

7. Handling and Storage

Handling: Wash thoroughly after handling. Wash hands before eating. Use adequate ventilation. Avoid contact with eyes. Keep container tightly closed. Avoid ingestion and inhalation. Wash clothing before reuse.

Storage: Store tightly in closed container. Store in a cool, dry, well-ventilated area.

Avoid dispensing dust in air and exposure to potential ignition sources. Remove feed dust from area/processing equipment prior to using any heat producing equipment such as arc welders, cutting torches and spark/heat producing tools such as portable surface grinders.

8. Exposure Controls/Personal Protection

Respiratory Protection: Follow OSHA respirator regulations found in 29CFR1910.34. Always use a NIOSH approved respirator when necessary.

Ventilation: Use adequate ventilation to keep airborne concentrations low.

Local Exhaust: If needed

Mechanical (General): If needed

Ensure that dust handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work areas. Use only appropriately classified electrical equipment and powered industrial trucks.

Protective Gloves: Wear appropriate protective gloves to prevent skin exposure.

Eye Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations 29 CFR 1910.133.

Work/Hygienic Practices: Good personal hygiene practices should be followed. Wash hands and face before eating, drinking, etc.

Avoid dust accumulation and control ignition sources. Where appropriate, employ grounding, venting, and explosion relief provisions in accordance with accepted engineering practices in processes capable of generating dust and/or static electricity. Avoid accumulation of dust on surfaces to prevent secondary dust explosions. Refer to appropriate OSHA, NFPA and applicable standards.

9. Physical and Chemical Properties

Flash Point (Method): N/A

Flammable Limits: N/A

LEL: N/A

UEL: N/A

Autoignition Temperature: N/A

Appearance: Powder color varies from off white to cream contained in a capsule.

Solid Contents: 96-98%

10. Stability and Reactivity

Stability: Stable **Condition to Avoid:** Avoid high temperature treatments (>800 degrees Celsius) as components of product may be converted to crystalline forms of silica.

Incompatibility (Materials to Avoid): N/A

Hazardous Decomposition or Byproducts: None known

Hazardous Polymerization: Will not occur **Condition to Avoid:** N/A

11. Toxicology Information

Routes of Entry

Inhalation: Yes

Skin: Yes

Eyes: Yes

Ingestion: Unlikely

Carcinogenicity: None known

NTP: No

ARC Monographs: N/A

OSHA Regulated: No

Acute: May cause eye irritation. Low hazard for usual industrial handling. Ingestion of significant amount may cause gastrointestinal upset.

Chronic: May cause eye irritation. Low hazard for usual industrial handling.

Signs and Symptoms of Exposure: Coughing, skin irritation, eye redness.

Medical Conditions Generally Aggravated by Exposure: High dust exposure should be avoided by people with pulmonary disorders, asthma, respiratory disorders. Product contains soy, those with an allergen to soy may have a reaction if ingested.

12. Ecological Information

Ecotoxicity: No information available

Environmental: No information available

Physical: No information available

Other: No information available

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.

14. Transport Information

USDOT: Not Regulated

Hazard class: N/A

15. Regulatory Information

Section (b)(5)(iii) of the HCS (CFR 1910.1200) exempts food, including feed and therefore any associated feed dust, from the labeling requirements of the HCS since the food/feed is subject to the labeling requirements of the Food and Drug Administration.

16. Other Information

Animal feed is comprised of whole and processed grains and may contain added vitamins and minerals. Feed components generally produce a limited amount of dust in manufacturing and handling of the material.

Last Updated: 8/27/15

The information being provided in this SDS is correct to the best of our knowledge based on the information provided to us at its date of preparation. The information contained within this SDS is provided to serve only as a guide for safe handling, use, and storage and is not intended to be an all-inclusive as to the manner and conditions of use, handling, and storage. This document is not considered to be a quality specification and/or warranty. No suggestions are intended as and should not be construed as to use, handle, and/or store product in a manner that violates any Federal, State, or local laws.

N/A = Not available



SAFETY DATA SHEET

Issuing Date 16-Feb-2018

Revision Date 16-Feb-2018

Revision Number 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name Rumen Yeast Caps

Other means of identification

Product Code(s) 20818-175; 20818-179

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Animal Feed Supplement

Restrictions on use For livestock use only.

Details of the supplier of the safety data sheet

Supplier Address

TechMix, LLC, P.O. Box 221, Stewart, MN 55385

Emergency telephone number

Company Phone Number 1-877-466-6455

Emergency Telephone Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

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

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2B

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Warning

Hazard statements
Causes skin irritation

Causes eye irritation



Appearance Textured Powder; Product is enclosed in a dissolvable capsule.

Physical state Solid

Odor Slightly Sweet & Caramel Aroma

Precautionary Statements - Prevention

Wash face, hands, and any exposed skin thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash before reuse.

Other Information

May be harmful if swallowed.
May be harmful in contact with skin.

Unknown acute toxicity

- 95.43016 % of the mixture consists of ingredient(s) of unknown toxicity.
- 52.70196 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
- 63.30196 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
- 95.43016 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
- 95.43016 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
- 95.43016 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Component	CAS No.	Weight-%	Trade secret
Other Non-Hazardous Components	NONE	75 - 100	*
Calcium Carbonate	471-34-1	10 - 15	*
Grain Dust	RR-00014-6	5 - 10	*

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

4. FIRST AID MEASURES

Description of first aid measures

Inhalation

Do not breathe dust. Remove to fresh air.

Eye contact

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Skin contact Wash hands thoroughly after handling. If symptoms persist, call a physician.

Ingestion Rinse mouth thoroughly with water. Drink plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians 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 No information available.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Special protective equipment for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool, and well-ventilated place. Protect from moisture. Protect from light.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

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

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Calcium Carbonate 471-34-1	No data available	-	TWA: 10 mg/m ³ total dust TWA: 5 mg/m ³ respirable dust
Grain Dust RR-00014-6	TWA: 4 mg/m ³	TWA: 10 mg/m ³ (vacated) TWA: 10 mg/m ³ oat, wheat, barley	TWA: 4 mg/m ³

Appropriate engineering controls

Engineering controls Showers.
Eyewash stations.
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection No special protective equipment required.

Skin and body protection No special protective equipment required.

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.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Solid
Appearance Textured Powder; Product is enclosed in a dissolvable capsule.
Color Powder: White with Brown Particles; Capsule: Dark Blue
Odor Slightly Sweet & Caramel Aroma
Odor threshold No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	None known
Melting point / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known

Solubility in other solvents	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive properties	No information available	
Oxidizing properties	No information available	

Other Information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Liquid Density	No information available
Bulk density	20 grams per capsule

10. STABILITY AND REACTIVITY

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	None known based on information supplied.
Incompatible materials	None known based on information supplied.
Hazardous decomposition products	None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure**Product Information**

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	No information available.
-----------------	---------------------------

Numerical measures of toxicity**Acute toxicity**

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral)	4,370.00
ATEmix (dermal)	2,287.00

Unknown acute toxicity

- 95.43016 % of the mixture consists of ingredient(s) of unknown toxicity.
 52.70196 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
 63.30196 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
 95.43016 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
 95.43016 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
 95.43016 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Component	Oral LD50	Dermal LD50	Inhalation LC50
Calcium Carbonate 471-34-1	= 6450 mg/kg (Rat)	-	-

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

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity	The environmental impact of this product has not been fully investigated.
Persistence and degradability	No information available.
Bioaccumulation	There is no data for this product.
Other adverse effects	No information available.

13. DISPOSAL CONSIDERATIONS**Waste treatment methods**

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

14. TRANSPORT INFORMATION

<u>DOT</u>	Not regulated
-------------------	---------------

15. REGULATORY INFORMATION

International Inventories

TSCA	Does not comply
DSL/NDSL	Does not comply
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply

Legend:

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are 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	No
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 Compensation 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.

U.S. State Right-to-Know Regulations

Component	New Jersey	Massachusetts	Pennsylvania
Grain Dust RR-00014-6	-	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA	Health hazards 0	Flammability 0	Instability 0	Physical and chemical properties -
HMIS	Health hazards 0	Flammability 0	Physical hazards 0	Personal protection X

Issuing Date	16-Feb-2018
Revision Date	16-Feb-2018
Revision Note	No information available.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet