



## SAFETY DATA SHEET FORM

## MicroEssentials Prime

## Section 1 - PRODUCT and COMPANY IDENTIFICATION

## 1.1 Product Identifier

Product Name: MicroEssentials Prime  
 Product Code(s): ME-PRIME  
 Chemical Name: Mixture  
 Synonyms: NA

## 1.2 Relevant identified uses of the substance or mixture and uses advised against

Intended Product Use: Complex nutrient blend, food ingredient

## 1.3 Details of the supplier of the safety data sheet

Manufacturer/Distributor: Gusmer Enterprises, Inc.  
 Postal Address: 81 M Street, Fresno, CA 93721 USA 1401 Ware Street, Waupaca, WI 54981 USA  
 Telephone Number: (01)(559) 485-2692 [USA] (product info) (01)(715) 258-5525 [USA] (product info)  
 Hours of Operation: Monday - Friday 8:00am-5:00pm PST Monday - Friday 8:00am-5:00pm CST

## 1.4 Emergency telephone number

Medical Emergency: 911  
 Chemical Emergency: (800) 424-9300

## Section 2 - HAZARDS IDENTIFICATION

## 2.1 Classification of the substance or mixture:

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)  
 Combustible Dust

## 2.2 Label Elements

Hazard Pictogram(s): None

Signal Word: **Warning**

## Hazard Statements:

May form combustible dust concentrations in air.

## Precautionary Statements:

Avoid heat, sparks, flames and other ignition sources.  
 Prevent dust accumulations to minimize explosion hazard.  
 Ventilation recommended.

## 2.3 Emergency Overview

Appearance/Odor: Tan colored powder with yeast like aroma.

**Other Hazards:** Warning: Inhalation may cause respiratory irritation, breathlessness, coughing, chest tightness, and difficulty breathing. May cause skin irritation on prolonged contact. May cause eye irritation upon direct contact. Excessive ingestion may cause intestinal discomfort (bloating, cramping, diarrhea, etc.).

Ingredients in this product are identified as flavoring compounds and NIOSH has reported the occurrence of severe lung disease in some workers who make or use flavorings. The mixture has not been tested as a whole. It contains ingredients which could be released from the mixture in concentrations which would exceed an established OSHA permissible exposure limit or ACGIH Threshold Limit Value, or could present a health risk to employees.

## Section 3 - COMPOSITION / INFORMATION on INGREDIENTS

The identity of the individual components of this product is proprietary information and is considered a trade secret pursuant to 29 CFR 1910.1200. This product consists of a proprietary mixture which includes organic and inorganic nitrogen, vitamins and minerals.

<u>Inгредиент(s)</u>	<u>Common Name &amp; Synonyms</u>	<u>Percentage</u>	<u>CAS No.</u>
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No hazardous ingredients according to OSHA Hazard Communication Standard 29 CFR 1910.1200.

## Section 4 - FIRST AID MEASURES

## 4.1 Description of the first aid measures

Eye Contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.  
 Skin Contact: Immediately wash with water and soap and rinse thoroughly.  
 Inhalation: In case of unconsciousness, place patient securely on side position for transportation.  
 Ingestion: Give large amounts of water. If symptoms persist consult doctor.

## 4.2 Most important symptoms and effects, both acute and delayed

Eye Contact: May cause irritation.  
 Skin Contact: May cause irritation.  
 Inhalation: May cause irritation.  
 Ingestion: May cause intestinal discomfort

Chronic Effects: Not known to produce any long-term effects from continuing exposure.

## 4.3 Indication of any immediate medical attention and special treatment needed

Treatment: No special advice, treat symptomatically.

## Section 5 - FIREFIGHTING MEASURES

## 5.1 Extinguishing Media

Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## 5.2 Special hazards arising from the substance or mixture

No further relevant information available.

## 5.3 Advice for firefighters

As in any fire, wear NIOSH-approved self contained breathing apparatus and appropriate protective clothing.

Depending on airborne concentration, moisture content, particle diameter, surface area and exposure to an ignition source, airborne dust may ignite and burn with explosive force in a contained area.



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## Section 6 - ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions, protective equipment and emergency procedures**

Avoid inhalation of dust.

**6.2 Environmental precautions**

None, discharge in accordance with federal, state and local laws.

**6.3 Methods and materials for containment and cleaning up**

If large amounts of dust are generated, collect with vacuum or suppress with water spray and sweep up. Minimize compressed air blowdown or other practices that generate high dust levels.

See Section 8 for appropriate personal protective equipment.

## Section 7 - Handling and Storage

**7.1 Precautions for safe handling**

Avoid generating excessive dust. If dust levels are suspected to be over PEL, wear a NIOSH approved N95 or greater respirator. Protect from excessive moisture. Maintain good housekeeping practices. Avoid contact with eyes, skin and clothing. See Section 8 for more information

**7.2 Conditions for safe storage, including any incompatibilities**

Store in original container or clean, covered container. Store in cool, dry, well-ventilated area. Product should be kept sealed and dry.

See Section 8 for OSHA permissible exposure limit(s)

## Section 8 - EXPOSURE CONTROL / PERSONAL PROTECTION

**8.1 Control parameters**

This product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**8.2 Exposure controls****Normal Handling Conditions**

**Engineering Controls:** If necessary use ventilation system to keep airborne dust concentration below permissible exposure limits. Ventilation to control dust should be considered where potential explosive concentrations and ignition sources are present. The design and operation of any exhaust system should consider the possibility of explosive concentrations of dust within the system.

Ensure that exhaust ventilation and material transport systems involved in handling this product contain explosion relief vents or suppression systems designed and operated in accordance with applicable standards if the operating conditions justify their use.

**Respiratory Protection:** If dust levels are suspected to be over PEL, wear a NIOSH approved N95 or greater respirator.

**Eye Protection:** ANSI Z87+ approved dust goggles or safety glasses, if necessary, to avoid eye irritation.

**Skin Protection:** Cover skin with clothing and/or gloves if skin dryness or irritation occurs.

**General Hygiene:** Maintain good housekeeping practices, wash hands after handling, avoid direct eye contact. Clean up areas where dust settles to avoid excessive accumulation of this combustible material. Minimize compressed air blowdown or other practices that generate high airborne-dust concentrations.

## Section 9 - PHYSICAL and CHEMICAL PROPERTIES

**9.1 Information on basic physical and chemical properties**

Physical State:	Powder		
Color:	Tan colored		
Odor:	Yeast-like aroma		
Odor Threshold:	No Data Available		
pH:	No Data Available		
Melting / Freezing Point (Specify):	No Data Available		
Initial Boiling Point & Boiling Range:	No Data Available		
Flash Point:	No Data Available		
Evaporation Rate:	No Data Available		
Flammability (solid, gas):	upper: No Data Available	lower: No Data Available	Kst: No Data Available
Explosive Limits:	LEL: No Data Available	UEL: No Data Available	
Vapor Pressure:	No Data Available		
Vapor Density:	No Data Available		
Relative Density:	No Data Available		
Solubility(ies):	Partially soluble in water		
Partition Coefficient (n-octanol/water):	No Data Available		
Auto-ignition Temperature:	No Data Available		
Decomposition:	No Data Available		
Oxidizing Properties:	No Data Available		
Viscosity:	No Data Available		

## Section 10 - STABILITY and REACTIVITY

**10.1 Reactivity:** No Data Available

**10.2 Chemical stability:** Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions:** None

**10.4 Conditions to avoid:** Avoid open flame, sparks and other sources of ignition. Avoid humidity

**10.5 Incompatible materials:** Avoid open flame, sparks and other sources of ignition.

**10.6 Hazardous decomposition products:** No Data Available



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## Section 11 - TOXICOLOGY INFORMATION

## 11.1 Information on toxicological effects

**Toxicology Data:** The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

**Skin Corrosion/Irritation:** Irritant to skin and mucous membranes.

**Serious Eye Damage/Eye Irritation:** Irritating effect.

**Respiratory or Skin Sensitization:** No sensitizing effects known.

**STOT - Single Exposure:** May cause upper respiratory tract irritation.

**STOT - Repeated Exposure:** Not known to produce any long-term effects from continuing exposure.

**Aspiration Hazard:** No Data Available

## 11.2 Further Information

**Mutagenicity:** No Data Available

**Productive Toxicity:** No Data Available

**Carcinogenicity:** Not classified as a carcinogen by OSHA, NTP, or IARC in their reviews.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

## Section 12 - ECOLOGICAL INFORMATION

## 12.1 Toxicity

No Data Available

## 12.2 Persistence and degradability

No Data Available

## 12.3 Bioaccumulative potential

No Data Available

## 12.4 Mobility in soil

No Data Available

## 12.5 Other adverse effects

No Data Available

## Section 13 - DISPOSAL CONSIDERATIONS

**Substance:** Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## Section 14 - TRANSPORTATION INFORMATION

**UN Number:** Not Applicable

**Class:** Not Applicable

**Proper Shipping Name:** Not Applicable

**Packing Group:** Not Applicable

**Marine Pollutant:** Not Applicable

**Other Applicable Information:** Not Applicable

## Section 15 - REGULATORY INFORMATION

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Intended for use only by commercial manufacturers. Not intended for retail sale or use by individual consumers.

**California Prop. 65 Components:**

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

## Section 16 - OTHER INFORMATION

**Product Number(s):** ME-Prime

**Prepared By:** Gusmer Enterprises, Inc.

**Name of Preparer:** Eric Anderson

**Title:** Corporate Safety & Regulatory Manager

**Date:** 12/20/2019

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## GHS Hazard Warning Label

## MicroEssentials Prime

**Warning:** May form combustible dust concentrations in air.  
Avoid heat, sparks, flames and other ignition sources.  
Prevent dust accumulations to minimize explosion hazard.  
Ventilation recommended.

Gusmer Enterprises Inc.  
81 M St. Fresno, CA 93721 (559) 485-2692

CONSULT SDS FOR ADDITIONAL INFORMATION ON HAZARD

V3.0