




	Gusmer Enterprises, Inc.®		Issue Date: 03/13/18
			Version: 2.0
<b>SAFETY DATA SHEET FORM</b>			
Product Identifier:		MicroEssentials Oenos	
<b>Section 1 - PRODUCT and COMPANY IDENTIFICATION</b>			
<p><b>1.1 Product Identifier</b>  Product Name: MicroEssentials Oenos  Product Code(s): ME-OENOS  Chemical Name: Mixture  Synonyms: NA</p> <p><b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b>  Intended Product Use: Nutrient blend for malolactic bacteria. This product is used during malolactic fermentation in wine.</p> <p><b>1.3 Details of the supplier of the safety data sheet</b>  Manufacturer/Distributor: Gusmer Enterprises, Inc.</p> <p>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</p> <p><b>1.4 Emergency telephone number</b>  Medical Emergency: 911  Chemical Emergency: (800) 424-9300</p>			
<b>Section 2 - HAZARDS IDENTIFICATION</b>			
<p><b>2.1 Classification of the substance or mixture:</b>  <b>GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)</b>  Skin Irritation (Category 2)  Eye Irritation (Category 2B)  STOT SE (Category 3)</p> <p><b>2.2 Label Elements</b>  <b>Hazard Pictogram(s):</b>  <b>Signal Word: Warning</b></p> <p><b>Hazard Statements:</b>  Causes skin irritation.  Causes eye irritation.  May cause respiratory irritation.  May form combustible dust concentrations in air.</p> <p><b>Precautionary Statements:</b>  Avoid breathing dust/fume/gas/mist/vapors/spray.  Wear protective gloves/protective clothing/eye protection/face protection.  Wash thoroughly after handling.  Use in a well ventilated area.  If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present. Continue rinsing.  If eye irritation persists: Get medical advice/attention.  If inhaled: Remove person to fresh air and keep comfortable for breathing.  If on skin: Wash with plenty of water.  If skin irritation occurs: Get medical advice/attention.  Take off contaminated clothing and wash it before reuse.  Call a poison center/doctor if you feel unwell.  Store in a well ventilated place. Keep container tightly closed.  Store locked up.  Dispose of contents/ container to an approved waste disposal plant.</p> <p><b>2.3 Emergency Overview</b>  <b>Appearance/Odor:</b> Tan colored powder with yeast like aroma.</p> <p><b>Other Hazards:</b> 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.).</p> <p>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.</p>			
<b>Section 3 - COMPOSITION / INFORMATION on INGREDIENTS</b>			
The identity of the individual components of this product is proprietary information and is considered a trade secret pursuant to 29 CFR 1910.1200			
<b>Ingredient(s)</b>	<b>Common Name &amp; Synonyms</b>	<b>Percentage</b>	<b>CAS No.</b>
Yeast Derived Ingredients	NA	0-75%	NA
Thiamine HCL	Vitamin B1	<1%	67-03-8
Excipients	NA	0-25%	NA
<b>Section 4 - FIRST AID MEASURES</b>			
<p><b>4.1 Description of the first aid measures</b>  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.</p> <p><b>4.2 Most important symptoms and effects, both acute and delayed</b>  Eye Contact: May cause irritation.  Skin Contact: May cause irritation.  Inhalation: May cause irritation.  Ingestion: May cause intestinal discomfort</p> <p>Chronic Effects: Not known to produce any long-term effects from continuing exposure.</p> <p><b>4.3 Indication of any immediate medical attention and special treatment needed</b>  <b>Treatment:</b> No special advice, treat symptomatically.</p>			

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<b>Section 5 - FIREFIGHTING MEASURES</b>	
<p><b>5.1 Extinguishing Media</b>          Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.</p> <p><b>5.2 Special hazards arising from the substance or mixture</b>          No further relevant information available.</p> <p><b>5.3 Advice for firefighters</b>          As in any fire, wear NIOSH-approved self contained breathing apparatus and appropriate protective clothing.</p> <p>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.</p>	
<b>Section 6 - ACCIDENTAL RELEASE MEASURES</b>	
<p><b>6.1 Personal precautions, protective equipment and emergency procedures</b>          Avoid inhalation of dust.</p> <p><b>6.2 Environmental precautions</b>          None, discharge in accordance with federal, state and local laws.</p> <p><b>6.3 Methods and materials for containment and cleaning up</b>          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.</p> <p>See Section 8 for appropriate personal protective equipment.</p>	
<b>Section 7 - Handling and Storage</b>	
<p><b>7.1 Precautions for safe handling</b>          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</p> <p><b>7.2 Conditions for safe storage, including any incompatibilities</b>          Store in original container or clean, covered container. Store in cool, dry, well-ventilated area. Product should be kept sealed and dry.</p> <p>See Section 8 for OSHA permissible exposure limit(s)</p>	
<b>Section 8 - EXPOSURE CONTROL / PERSONAL PROTECTION</b>	
<p><b>8.1 Control parameters</b>          This product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.</p> <p><b>8.2 Exposure controls</b></p> <p><b>Normal Handling Conditions</b>          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.</p> <p>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.</p> <p>Respiratory Protection: If dust levels are suspected to be over PEL, wear a NIOSH approved N95 or greater respirator.</p> <p>Eye Protection: ANSI Z87+ approved dust goggles or safety glasses, if necessary, to avoid eye irritation.</p> <p>Skin Protection: Cover skin with clothing and/or gloves if skin dryness or irritation occurs.</p> <p>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.</p>	
<b>Section 9 - PHYSICAL and CHEMICAL PROPERTIES</b>	
<p><b>9.1 Information on basic physical and chemical properties</b></p> <p>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 &amp; 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          Explosive Limits: LEL: No Data Available UEL: No Data Available Kst: 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</p>	

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<b>Section 10 - STABILITY and REACTIVITY</b>			
<p><b>10.1 Reactivity</b> No Data Available</p> <p><b>10.2 Chemical stability</b> Stable under recommended storage conditions.</p> <p><b>10.3 Possibility of hazardous reactions</b> None</p> <p><b>10.4 Conditions to avoid</b> Avoid open flame, sparks and other sources of ignition. Avoid humidity</p> <p><b>10.5 Incompatible materials</b> Avoid open flame, sparks and other sources of ignition.</p> <p><b>10.6 Hazardous decomposition products</b> No Data Available</p>			
<b>Section 11 - TOXICOLOGY INFORMATION</b>			
<p><b>11.1 Information on toxicological effects</b></p> <p><b>Toxicology Data:</b> The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.</p> <p><b>Skin Corrosion/Irritation:</b> Irritant to skin and mucous membranes.</p> <p><b>Serious Eye Damage/Eye Irritation:</b> Irritating effect.</p> <p><b>Respiratory or Skin Sensitization:</b> No sensitizing effects known.</p> <p><b>STOT - Single Exposure:</b> May cause upper respiratory tract irritation.</p> <p><b>STOT - Repeated Exposure:</b> Not known to produce any long-term effects from continuing exposure.</p> <p><b>Aspiration Hazard:</b> No Data Available</p> <p><b>11.2 Further Information</b></p> <p><b>Mutagenicity:</b> No Data Available</p> <p><b>Productive Toxicity:</b> No Data Available</p> <p><b>Carcinogenicity:</b> 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.</p>			
<b>Section 12 - ECOLOGICAL INFORMATION</b>			
<p><b>12.1 Toxicity</b> No Data Available</p> <p><b>12.2 Persistence and degradability</b> No Data Available</p> <p><b>12.3 Bioaccumulative potential</b> No Data Available</p> <p><b>12.4 Mobility in soil</b> No Data Available</p> <p><b>12.5 Other adverse effects</b> No Data Available</p>			
<b>Section 13 - DISPOSAL CONSIDERATIONS</b>			
<b>Substance:</b> Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.			
<b>Section 14 - TRANSPORTATION INFORMATION</b>			
<p><b>UN Number:</b> Not Applicable</p> <p><b>Class:</b> Not Applicable</p> <p><b>Proper Shipping Name:</b> Not Applicable</p> <p><b>Packing Group:</b> Not Applicable</p> <p><b>Marine Pollutant:</b> Not Applicable</p> <p><b>Other Applicable Information:</b> Not Applicable</p>			

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<b>Section 15 - REGULATORY INFORMATION</b>	
<p><b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b></p> <p><b>TSCA:</b> Listed  <b>SARA 302:</b> No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.  <b>SARA 313:</b> This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.  <b>SARA 311/312:</b> No SARA Hazards.  <b>California Prop. 65 Components:</b>          This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.</p>	
<b>Section 16 - OTHER INFORMATION</b>	
<p><b>Product Number(s):</b> ME-OENOS</p> <p><b>Prepared By:</b> Gusmer Enterprises, Inc.      <b>Name of Preparer:</b> Eric Anderson  <b>Title:</b> Corporate Safety &amp; Regulatory Manager  <b>Date:</b> 3/13/2018</p>	
<p><b>DISCLAIMER:</b> While the information in this document is based on data which, to the best of our knowledge, was accurate and reliable at the time of preparation, no responsibility can be accepted by us for errors or omissions. The provision of this information should not be construed as a recommendation to use any of our products in violation of any patent rights or in breach of any statute or regulation. Users are advised to make their own determination as to the suitability of this information in relation to their particular purposes and specific circumstances. Since the information contained in this document may be applied under conditions beyond our control, we can accept no responsibility for any loss or damage caused by any person acting or refraining from acting as a result of this information.</p>	
<p><b>GHS Hazard Warning Label</b></p> <div style="border: 1px solid black; padding: 10px; width: 80%; margin: auto;"> <p><b>MicroEssentials Oenos</b></p>  <p><b>WARNING:</b>          Causes skin and eye irritation.          May cause respiratory irritation.          May form combustible dust concentrations in air.</p> <p>Avoid breathing dust/fume/gas/mist/vapors/spray. Use in a well ventilated area.          If inhaled: Remove person to fresh air and keep comfortable for breathing.          Wear protective gloves/protective clothing/eye protection/face protection.          If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present. Continue rinsing. If eye irritation persists: Get medical advice/attention.          If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention.          Take off contaminated clothing and wash it before reuse. Wash thoroughly after handling.          Call a poison center/doctor if you feel unwell.          Store in a well ventilated place. Keep container tightly closed. Store locked up.          Dispose of contents/ container to an approved waste disposal plant.</p> <p>Gusmer Enterprises Inc.          81 M St. Fresno, CA 93721 (559) 485-2692  <b>CONSULT SDS FOR ADDITIONAL INFORMATION ON HAZARD</b></p> <p style="text-align: right;">V1.0</p> </div>	