



## Introducing A New Wine Making Essential...

### MicroEssentials™



### PRODUCT DESCRIPTION

**MicroEssentials Powder** is a loose form of yeast nutrient supplying a rich mixture of organic and inorganic nitrogen, vitamins and trace minerals. **MicroEssentials Powder** incorporates the latest research on yeast nutritional requirements in wine fermentations and ensures sufficient supply of inorganic nitrogen, amino acids, fatty acids, nucleic acids, vitamins, minerals and detoxifying components.

### APPLICATION

**MicroEssentials Powder** is a highly complex nutrient designed for use with red and white ferments. **MicroEssentials Powder** provides 17ppm available nitrogen at 1 lb / 1,000 gal. When more than 70ppm of available nitrogen addition is needed, we recommend supplementing with diammonium phosphate.

### INSTRUCTIONS FOR USE

Add **MicroEssentials Powder** directly to juices and musts at onset of fermentation or supplement up to mid-fermentation. When adding more than 2 lbs / 1,000 gal, multiple administrations (2 or 3 additions) are recommended over the first half of the alcoholic fermentation.

For added convenience, try **MicroEssentials Complete-TR™**, which offers complete nutritional supplementation with *time-release* performance and provides the desired fermentation kinetics as obtained through incremental dosing.



## TECHNICAL DATA

- ◇ Addition Level
  - ▶ Recommended dosage is 1 - 8 lbs / 1,000 gal
- ◇ Storage and Shelf Life
  - ▶ Store in a cool, dry, well-ventilated area
  - ▶ Shelf life at least 18 months if stored under recommended conditions
- ◇ Appearance
  - ▶ Tan colored powder with yeast-like aroma

For further recommendations on dosage, or dosage based on YAN values, please contact a Gusmer representative - or refer to the *Gusmer Nutrient Addition Chart* in the wine product catalog or at [www.gusmerwine.com](http://www.gusmerwine.com).

## PACKING

Micro*Essentials* Powder is available in 25 kg boxes and 5 kg pails.

## PRODUCT SPECIFICATIONS

Typical Analysis	Specification
Protein	20 - 30%
Nitrogen	13 - 16%
Moisture (probe)	12% max
pH (5% solution)	6.5 - 8.0

Microbiological	Specification
Total Bacteria Count	< 20,000 / g
Yeast and Mold	< 100 / g
Coliform Organisms	< 10 / g
<i>E. coli</i>	Negative
<i>Salmonella</i>	Negative

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81 M Street  
 Fresno, CA 93721  
 Tel: 559-485-2692  
 Fax: 559-485-4254

640-D Airpark Rd.  
 Napa, CA 94558  
 Tel: 707-224-7903  
 Fax: 707-255-2019

1165 Globe Ave.  
 Mountainside, NJ 07092  
 Tel: 908-301-1811  
 Fax: 908-301-1812

1401 Ware St.  
 Waupaca, WI 54981  
 Tel: 715-258-5525  
 Fax: 715-258-8488