



## 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

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

## PRODUCT SPECIFICATIONS

Typical Analysis	Specification
Nitrogen	13 - 16%
Moisture (probe)	12% max

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

**Important Note:** Gusmer Enterprises, Inc. provides this information to the best of our knowledge. This information does not claim to be complete and Gusmer Enterprises, Inc. cannot assume liability for improper use. All users are advised to test products to meet their specific needs.

