

# Propaide™

Yeast nutrient complex

Propaide™ is a complex yeast nutrient formula based on the synergies of nitrogen, minerals and vitamins. Propaide™ was specifically developed to increase performance in industrial fermentation grain mashes by enhancing yeast growth & metabolic kinetics and improving stress resistance. Propaide™ was formulated after extensive research identifying key macro and micronutrient deficiencies in industrial alcohol fermentations.

Propaide™ is a fermentation nutritional supplement with following key properties:

- Stress protection mediated through supplementation of essential nutrients/cofactors implicated in global stress response pathways.
- Improved kinetics through improved transport mechanisms across yeast cell wall/membrane.
- Reduced instances of stuck and sluggish fermentations by providing macronutrients in addition to trace micronutrients described above.

**Ingredients :** Inactivated yeast (*Saccharomyces cerevisiae*), Yeast cell wall (*Saccharomyces cerevisiae*), Magnesium sulfate, Potassium chloride, Zinc sulfate, Biotin, Copper gluconate, Inositol, Manganese sulfate, Niacin, Para-aminobenzoic acid, D-calcium Pantothenate, Pyridoxine hydrochloride, Riboflavin, Thiamine hydrochloride.

**Instructions of use:** Target 2.8 lb per 1000 gal or 33 g/hl of mash depending of mash quality

It should be slurried with water and added (or) introduced directly in the mash transfer lines to the propagator or fermentor. Do not mix during yeast rehydration, it will cause loss in viability.

**Packaging:** 1 x 50 lbs (22.7 kg) bag

**Storage:** Store in cool (<75°F/24°C), dry conditions.

**Shelf life:** 24 months from production date under recommended storage conditions in sealed packaged. Refer to best before end date on sachets.

**Typical analysis\*:**

Total Plate Count:  $\leq 1.5 \times 10^4$  CFU / gram  
Yeast and Mold:  $\leq 50$  CFU / gram  
Total coliforms:  $\leq 10$  CFU / gram  
E. coli:  $\leq 10$  CFU / gram  
Salmonella: Absence / 375 gram  
\*Given for indication only

**PLEASE NOTE THAT THIS PRODUCT IS INTENDED FOR USE IN INDUSTRIAL SCALE FUEL ETHANOL FERMENTATION PROCESSES ONLY**