

Brewclar

Prevent chill haze in beer with a highly specific endopeptidase

Brewclar is a product containing a highly specific fungal endopeptidase enzyme. This enzyme only cleaves in haze sensitive polypeptides at the carboxyl end of the amino acid proline.

FUNCTIONS

Chill haze in beer results from the precipitation of complexed polyphenols and proteins during cold storage. This precipitation has been shown to result from hydrogen bonding between polyphenols and the proline rich fraction of particular polypeptides. This haze develops over time and, initially, is reversible (haze disappears when the temperature of the beer increases). The chill haze can become permanent as the hydrogen bonding gets stronger.

Brewclar prevents precipitation by hydrolyzing the sensitive (haze-active) polypeptides. It cleaves specifically the sites where such hydrogen bonding occurs. This specificity of

BENEFITS

Brewclar prevents chill haze in beer with a highly specific endopeptidase. Because of its specificity, this processing enzyme ensures good foam properties and other beer quality aspects.

PRODUCT APPLICATION

Brewclar can be used with all kinds of malts and other raw materials. The product is added to cooled wort at the beginning of fermentation.

The required dose rate is determined by:

- The percentage of barley malt, raw barley and/or wheat of the total grist composition
- The specific gravity (Plato) of the wort at the beginning of fermentation;
- The shelf-life required (months)



DOSING

Beer shelf-Life Requirement	6-9 months	9-12 months
Raw Material 100% barley malt	1-2 g/Hl	2-3 g/Hl
(by extract) 60% barley malt	1-1.5 g/Hl	1.5-2 g/Hl

*Recommended dose rates based on a 12°P wort

PACKAGING

Available in 20 Kg HDPE drums

PRODUCT SHELF LIFE

Below 20°C	Recommended storage condition
Preferred	Refrigerated and sheltered condition against sunlight

PRODUCT HANDLING

- Enzymes are proteins. Inhalation of dust or aerosols may induce sensitization and may cause allergic reactions in sensitized individuals. Some enzymes may irritate the skin, eyes and mucous membranes upon prolonged contact. The product may create easily inhaled aerosols if splashed or vigorously stirred.
- Spilled product may dry out and create dust. Spilled material should be flushed away with water. Avoid splashing. Left over material may dry out and create dust.
- Wear suitable protective clothing, gloves and eye/face protection
- Contaminated cloths should be properly washed
- MSDS is supplied with the product. Follow MSDS safety instructions for more details.



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