Kerry Food Ingredients (Cork) Limited Kilnagleary, Carrigaline.

Cork, Ireland Phone: +353214376400 Fax: +353214376480

# **PRODUCT SPECIFICATION - North America**

## **PRODUCT DETAILS**

Product Name BioHaze Product Code 20571978

## **INGREDIENT LISTING**

Gum Acacia (FEMA# 2001), Tannic Acid (FEMA# 3042)

## **USAGE / APPLICATION INFORMATION**

**BioHaze** is a unique product from natural plant extracts designed to deliver a cloudy appearance in beer. It is a free flowing microgranular powder that can be added to final beer. **BioHaze** acts by binding with protein molecules in beer and forming polyphenol-protein complexes. These complexes provide beer with its stable cloudy appearance.

It is recommended to prepare a 2-5% solution in cold de-aerated water for dosing. Recommended dose rate is 50-100 g/hl (500 to 1000 ppm), which is equal to a 2.5-5 litres of a 2% solution, or 1-2 litres of 5% solution (wt/vol) per hl of beer. If this solution is to used within a day of preparation, there is no need to add preservative.

## **Preparation of Solution:**

When preparing a solution of **BioHaze** a standard agitator is sufficient. It disperses easier in cold water so it is best to use cold water, and sufficient time should be given stirring to ensure complete dissolution. Proceed as follows using standard high-speed agitator for 1000 liters of a 2.0% solution:

- Place 1000 liters of cold water in tank and turn on the agitator until a good vortex is formed.
- Take 20 kg of BioHaze and add slowly at the vortex ensuring no lumps are formed.
- Stir until dissolved and the time will be dependent on the water temperature and the speed of agitator. The cooler the water the easier it is to disperse; however, dissolution is slower at low temperatures.

KEY PARAMETERS				
<b>Test</b> Moisture	Min	<b>Max</b> 15	<b>Units</b> g/100g	

MICROBIOLOGICAL DATA		
Aerobic plate count	<1000 cfu/g	
Enterobacteriaceae	<10 cfu/g	
Yeasts & Moulds	<200 cfu/g	
E. coli	Absent/25 g	
Salmonella	Absent/25 g	

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Allergen	Present Yes/No
Beef and products thereof	No
Carrot and products thereof	No
Celery and products thereof	No
Cereals containing gluten(1)	No
Chicken meat and products thereof	No
Cocoa and products thereof	No
Coriander and products thereof	No
Corn/maize and products thereof	No
Crustaceans and products thereof	No
Egg and products thereof	No
Fish and products thereof (3)	No
Glutamate and products thereof	No
Milk and products thereof (including lactose)	No
Mustard and products thereof	No
Nuts (other than peanuts) and products thereof(2)	No
Molluscs and products thereof	No
Legumes and products thereof	No
Lupin and products thereof	No
Peanuts and products thereof	No
Pork and products thereof	No
Sesame Seeds and products thereof	No
Soybeans and products thereof	No
Sulphur Dioxide/Sulphites > 10ppm	No
Wheat and products thereof(4)	No

Definitions conform with EU Regulation (EU) No 1169/2011 as amended, US Food Allergen Labelling and Consumer Protection Act (FALCP) and ALBA-list.

- (1) i.e. wheat, rye, barley, oats, spelt, kamut or their hybridised strain
- (2) Nut allergens: Almond Prunus dulcis (Rosaceae) Beech nut Fagus spp. (Fagaceae), Brazil nut Bertholletia excelsa (Lecythidaceae), Butternut Juglans cinerea (Juglandaceae), Cashew Anacardium occidentale (Anacardiaceae), Chesnut (Chinese, American, European, Seguin) Castanea spp. (Fagaceae), Chinquapin Castanea pumila (Fagaceae), Coconut Cosos nucifera L. (Arecaceae (alt. Palmae)), Fibert/Hazelnut Corylus spp. (Betulaceae), Ginko nut Ginkgo biloba L. (Ginkgoaceae), Hickory nut Carya spp. (Juglandaceae), Lichee nut Litchi chinensis Sonn. (Sapindaceae), Macadamia nut/Bush nut Macadamia spp. (Proteaceae), Pecan Carya illinoiesis (Juglandaceae), Pine nut/Pinon nut Pinus spp. (Pineaceae), Pili nut Canarium ovatum (Burseraceae), Pistachio Pistacia vera L. (Anacardiaceae), Sheanut Vitellaria paradoxa (Sapotaceae), Walnut (English, Persian, Black, Japanase, California), Heartnut, Juglans spp. (Juglandaceae)
- (3) Isinglass is used as a fining agent in beer and wine. It is exempt from declaration, as defined in Annex II of Regulation (EU) No 1169/2011 as amended.
- (4) i.e. common wheat, durum wheat, club wheat, spelt, semolina, Einkorn, emmer, kamut and triticale.

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**SUITABILITY DATA** 

Yes = Suitable, Comment/Certification

No = Unsuitable Status

Vegetarian (Ova-lacto) Yes Vegan Yes

Certified / Not Certified Comment

Not Certified Suitable

Not Certified Suitable

**NUTRITION INFORMATION** 

**Nutrient** Max Units Energy 65 kJ/100g Energy 15 kCal/100g Total carbohydrates g/100g Total fat g/100g Protein 3 g/100g Moisture g/100g g/100g Ash

**Date Source** 

Halal Kosher

Values quoted are typical and should be used for guidance purposes only.

## PROCESS SUMMARY

Kerry has implemented and maintains food hygiene standards and HACCP Plans in line with the requirements of food legislation.

The Carrigaline, Co Cork site is certified against the requirements of FSSC22000 and ISO14001.

#### **RECOMMENDED SHELF-LIFE & STORAGE**

Transport & Storage Conditions: Product must be maintained in cool, dry conditions below 20 °C.

Shelf life (Original package): 730 days (24 months).

## **PACKAGING**

Pack size (Net) 20 Kg Pack Type Inner Plastic

Pack Type Outer Cardboard Box

## **HEALTH AND SAFETY DATA**

As per Safety Data Sheet (SDS). SDS available on request.



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## **LEGISLATION & WARRANTY STATEMENT**

We warrant that the product is manufactured in accordance with the specification and is manufactured and packaged in compliance with all EU food and food safety legislation applicable to products of this nature at time of manufacture and sale by us.

We make no further warranty in relation to the product or as to the suitability of the product for any specific purpose or application. The user should satisfy itself as to the suitability of the product as an ingredient in a specific application or for any use whatsoever. The information supplied in this specification sheet is in accordance with our product formulation, is also based on manufacturing plant data and on data provided by our raw material suppliers and is accurate to the best of our knowledge at the date of issue of this specification. Local national regulations should also be consulted by user in relation any specific application and in relation to appropriate ingredient declarations as legislation may vary from country to country.

## CONFIDENTIALITY

This document and the information contained within it remains the property of Kerry Group and must not be disclosed to any third party without prior written permission of the company.

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