

## Material Safety Data Sheet

### WHC Glucoamylase Enzyme

#### 1. PRODUCT AND COMPANY DETAILS

##### Product

**Name of Product:** WHC Glucoamylase Enzyme

**UFI:** 3AE0-A0H3-Q008-CM7V

**Relevant uses:**

Food additive

**Uses advised against:**

All uses not specified in this section or in section 7.3

##### Details of the supplier of the safety data sheet

**Name of Company:** WHC Lab Ltd.

**Address:** WHC Lab, Prospect Lower, Newcastle, Co. Wicklow, Ireland, A63 H0K8

##### Emergency Contact Numbers

**Managing Director:** Tony O'Kane: +353 87 948 3590

**Technical Director:** Philip Woodnutt: +353 89 406 8622

**Plant Manager:** Farrokh Farrokh Pour: +353 87 375 4880

**Sales Director:** Pete Garraway: +44 779 658 5387

*In case of an emergency please contact the local emergency services.*

#### 2. HAZARDS

##### Classification (CLP Regulation EC 1272/2008):

**Respiratory sensitizer (H334): May cause allergy or asthma symptoms or breathing difficulties if inhaled.**



##### Label elements:

- Danger
- Hazard statements: H334
- Precautionary statements: P101, P102, P261, P284, P304+P340, P342+P311, P501

##### Other hazards:

- Does not meet PBT/vPvB criteria
- No endocrine-disrupting properties

#### 3. INGREDIENT COMPOSITION

##### Chemical characterization:

Mixture of substances

**Classification: Resp. Sens. 1 (H334)**





Components	UFI Number	CAS Number	Concentration
Amylase, gluco-	3AE0-A0H3-Q00 8-CM7V	9032-08-0	10 to 12%
Water	-	-	70 to 80%
Glucose	-	-	8 to 10%
Sodium chloride	-	-	5 to 8%
Sodium benzoate	-	-	1 to 2.5%
Potassium sorbate	-	-	1 to 2.5%

#### 4. FIRST AID PROCEDURES

Description of first aid procedures	
Contact with Eyes:	Rinse opened eye for at least 15 minutes under lukewarm running water; do not rub eye
Contact with Skin:	Wash thoroughly with water and neutral soap; seek medical advice if skin changes occur
<b>Ingestion:</b>	<b><i>Seek immediate medical assistance, show Safety Data Sheet</i></b>
Inhalation:	Remove affected person to fresh air, keep comfortable, seek medical attention if symptoms persist or in serious cases

#### 5. FIRE FIGHTING MEASURES

Fire Suppression
Non-flammable under normal conditions; use ABC powder if involved in a fire.
Specific risks associated with the substance
Combustion creates reactive, potentially toxic by-products.
Advice for fire fighters
Use full protective clothing, self-contained breathing apparatus, cool containers, avoid spillage into water, follow emergency plans, eliminate ignition sources.

#### 6. ACCIDENTAL RELEASE CONTROLS

Safety measures, protective gear, and emergency procedures
Wear protective gear, ventilate area, avoid contact with skin and eyes, avoid vapors.
Environmental precautions
Do not flush into water systems or drains.
Techniques and supplies for containment and cleanup
Cover with non-combustible material, contain, pump into suitable containers, clean with water, dispose of residues properly.

#### 7. HANDLING AND STORAGE

Packaging Materials
WHC Glucoamylase Enzyme is available in 1kg, 5kg, 10kg and 25kg drums. Keep in original containers.
Storage and Handling
<b>Storage Conditions:</b> It is recommended to keep product in its original unopened packaging in ambient conditions (10°C to 30°C or 50°F to 86°F) to maintain maximum activity. Avoid freezing the product and ensure containers are sealed when not in use. Keep out of sunlight, moisture, and heat.



**Shelf life:** As stated on the pack.

**Handling:** Store tightly closed, in dry, cool, well-ventilated place, avoid contact with skin and eyes, inhalation of vapors. Wear personal protective equipment, wash hands after handling.

Please note the expiry date on the drum prior to opening.

## 8. EXPOSURE CONTROLS

Conditions	
General protective and hygienic measures:	The usual precautionary measures for handling chemicals should be followed.
Breathing equipment	Ensure good ventilation. Use respiratory masks (P1).
Protection of hands	Protective clothing, gloves (nitrile, butyl, latex), safety glasses.
Penetration time of glove material	The exact penetration time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection	Goggles recommended during refilling.
Environmental controls	Prevent entry into drains or water bodies.

## 9. PHYSICAL, CHEMICAL AND MICROBIOLOGICAL PROPERTIES

Parameter	Typical Value
<i>Form</i>	Liquid
<i>Color</i>	Brown
<i>Odor</i>	Product characteristic
<i>pH</i>	4-7
<i>Melting point</i>	No specific data
<i>Boiling point</i>	No specific data
<i>Flammability</i>	No specific data
<i>Decomposition temperature</i>	No specific data
<i>Auto igniting</i>	No specific data
<i>Danger of explosion</i>	No specific data
<i>Vapor pressure at 20°C (68°F)</i>	No specific data
<i>Relative density</i>	1.10-1.25
<i>Solubility in / Miscibility with Water</i>	Soluble in water
<i>Dynamic at 25°C (77°F)</i>	No specific data
<i>Kinematic</i>	No specific data
<i>Organic solvents</i>	No specific data



## 10. STABILITY/REACTIVITY

### Conditions to avoid

Heat, flames, sparks.

### Reactivity

Non-reactive under normal conditions.

### Chemical stability

Stable.

### Possibility of hazardous reactions

No dangerous reactions known

### Incompatible materials

No further relevant information available

### Hazardous decomposition products

Toxic fumes may be released upon fire.

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

Skin irritation:	Mild irritant to skin and mucous membranes.
Eye irritation:	Mild irritant to eyes
Sensitization:	May cause allergy or asthma if inhaled.

### Additional toxicological information

Contact can cause allergic reactions; no mutagenicity, carcinogenicity, or reproductive toxicity classified.

## 12. ECOLOGICAL INFORMATION

### Toxicity

**Aquatic toxicity:** Not harmful to aquatic life, no long-term effects.

**Biodegradability:** Readily biodegradable.

### Behavior in environmental systems:

**Bioaccumulative potential:** No further relevant information available.

**Mobility in soil:** No further relevant information available.

### Additional ecological information:

**Environmental risks:** Do not release into water systems.

## 13. DISPOSAL

### Waste treatment methods:

**Recommendation:** Dispose of in accordance with local regulations, in licensed facilities.

### Uncleaned packagings:

**Recommendation:** Disposal must be made according to official regulations.



## 14. TRANSPORT

Transport Information	
<b>UN-Number</b> <b>DOT, ADR, ADN, IMDG, IATA</b>	Void
<b>UN proper shipping name</b> <b>DOT, ADR, ADN, IMDG, IATA</b>	Void
<b>Transport hazard class(es)</b> <b>DOT, ADR, ADN, IMDG, IATA Class</b>	Void
<b>Packing group</b> <b>DOT, ADR, IMDG, IATA</b>	Void
<b>Environmental hazards</b>	Not applicable.
<b>Special precautions for user</b>	Not applicable.
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
<b>UN "Model Regulation"</b>	Void

## 15. REGULATORY INFORMATION

Regulatory Information
Contains no REACH substances with restrictions or on the candidate list. No chemical safety assessment has been carried out by the supplier.

## 16. OTHER INFORMATION

*The information presented here is based on our current understanding.  
It describes the product in terms of the necessary safety precautions.  
It does not imply that the product's qualities are guaranteed.*

If you have any questions or concerns about our product please contact us at [lab@whclab.com](mailto:lab@whclab.com)