



#### 1. Identification of the substance/preparation and of the company

Product Name: Amylaze

Synonyms: liquid enzymatic preparation

Formula: not applicable

Company Identification: Harris Homecraft Ltd  
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#### 2. Composition/Information on ingredients

Substance  
Chemical composition: liquid preparation

Name	Concentration %	CAS No.
Fungal Alpha Amylase enzyme protein CE 232-588-1 IUB Code: 3.2.1.1	8-15%	9001-19-8

CLP Classification: Resp. sens. 1; H334

#### 3. Hazard Identification



Warning symbols:

Danger notice: Danger

Hazard Statements: H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary Statements: P261 – Avoid breathing dust/fumes/gas/mist/vapours/spray  
P285 – In case of inadequate ventilation, wear respiratory protection  
P304/P340/P312– If inhaled move person to fresh air and keep at rest in a position comfortable for breathing. Call a doctor or poison centre if victim feels unwell.  
P342/P311 – If respiratory difficulty experienced, call a poison centre/doctor.  
p305/p351/p338 – If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so.  
P337/P313 – If eye irritation persists, get medical

advice/attention.  
P264 – Wash hands thoroughly after handling.  
P302/P352 – If on skin, wash with plenty of soap and water.  
P332/P313 – If skin irritation occurs get medical advice/attention.  
P501 – Dispose of contents/container according to local regulations.

Contains: Enzyme protein – Fungal alpha amylase protein

Properties affecting health: This mixture contains no products considered PBT or vPvB

#### 4. First Aid Measures

Inhalation: May cause allergic respiratory reaction. If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms/difficulty breathing, seek medical advice.

Ingestion: Ingestion may cause gastrointestinal irritation. Wash mouth with water immediately. Do not induce vomiting. Never give anything by mouth to an unconscious person. If swallowed, seek immediate medical attention.

Eye Contact: May cause slight irritation. Rinse immediately and copiously with clean, fresh water for at least 15 minutes, keeping eyelid opened. Remove contact lenses if present and easy to do. If eye irritation persists get medical advice/attention.

Skin Contact: May cause slight irritation. Remove contaminated clothing and wash them before using them again. Wash with plenty of water and soap. In case of irritation attributable to the product seek medical attention.

#### Most important symptoms and effects, both acute and delayed:

No information available

#### Indication of any immediate medical attention and special treatment needed:

May cause allergic respiratory reaction

#### 5. Fire Fighting Measures

Fire extinguishing media: CO<sub>2</sub>, foam, chemical powder, nebulized water.

Special hazards from the mixture May cause sensitization by inhalation.

Advice for firefighters: Wear the self-contained breathing apparatus and full protection equipment in case of fire, all the time.  
Water used in fire-fighting has to be disposed following local regulation.

#### 6. Accidental Release Measures

Personal Precautions: Use only with adequate ventilation/personal protection. Avoid breathing spray. Avoid formation of aerosols. In case of risk of aerosols, use an adequate respiratory protection

**Environmental Precautions:** Collect the product in suitable container for disposal. Prevent further leakage or spillage. Do not allow to enter natural waters or soil, but notify authorities if product enters sewer or public waters.

**Methods for Cleaning:** Use appropriate personal protection (see Section 8). Contain spilt product. Wash away with low pressure water supply. Do not use high pressure hose due to risk of aerosols. After spillage avoid raising aerosols or dust from dried preparation. Avoid splashing and high pressure washing (aerosols formation). Provide for sufficient ventilation. Wash with plenty of water. Place contaminated material into suitable containers and send them for waste disposal.

## 7. Handling & Storage

**Handling:** Avoid formation and breathing of dust or spray mist and direct contact with the product. Use appropriate protection Handle according to the good industrial hygiene and safety procedures. Do not smoke, eat or drink during the working processes. Supply good air circulation in working area.

**Storage:** Keep container tightly closed in a fresh (5-25°C) and well-ventilated place, far from sources of ignition.

## 8. Exposure Controls/Personal Protection

Derived no effect level (DNEL)

Derived Minimal effect level (DMEL)

Predicted no effect concentration (PNEC)

**Technical measures:** Use in a well ventilated environment.

**Hygiene measures:** Do not eat, drink or smoke during use. Wash hands after handling and before eating, smoking or going to the toilet, and at the end of the day.

**Hand protection:** Wear appropriate gloves

**Eye protection** Full mask

**Skin and body protection** wear appropriate protective clothing

**Respiratory protection** Wear a P3 (EN 143) dust mask

**Environmental exposure controls:** Notify the local authorities if significant leaks cannot be contained. Wastewater must be diverted to a purification/treatment plant.

## 9. Physical & Chemical Properties

Physical and chemical properties	Value	Determination method
Appearance	Brown liquid	
Odour	slight fermentation odour	
pH	5.5 – 7.0	
Melting point/freezing point	not determined	
Initial boiling point and boiling range	not determined	
Flash point	> 100°C	PMCC

Evaporation rate	not available
Flammability (solid, gas)	not applicable
Upper/lower flammability or explosive limits	not applicable
Vapour pressure	not determined
Vapour density	not determined
Density	1.0 – 1.1 Kg/L
Solubility	soluble in water
Water solubility	soluble
Partition coefficient: n-octanol/water	not available
Auto-ignition temperature	not applicable
Decomposition temperature	not determined
Viscosity	not available
Explosive properties	not determined
Oxidising properties	not determined

## 10. Stability & Reactivity

Reactivity	No data available.
Chemical stability	The product is stable under normal conditions of use and storage.
Possibility of hazardous reactions	Hazardous polymerization does not occur
Conditions to avoid	None known, a part aerosols formation.
Incompatible materials	None in particular
Hazardous decomposition products	None known

## 11. Toxicological Information

### Product information

Acute toxicity – complete preparation not expected to be toxic by ingestion.

Dermal no

irritation - may cause skin and eye irritation. May cause slight respiratory irritation

Other effects – systemic toxicity (no data); sensitisation (may cause sensitisation by inhalation of enzyme mist/dust which may cause allergic respiratory reactions including asthma in susceptible individuals).

Mutagenic effects – OECD 471 bacterial reverse mutation test - negative

Carcinogenicity – contains no ingredients listed as carcinogenic

Reproductive effects – contains no known reproductive hazards

Developmental toxicity – not expected to produce developmental or reproductive toxicity

## 12. Ecological Information

Toxicity:	No information available. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.
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Persistence and degradability:	Enzymes are considered readily biodegradable.
Bioaccumulative potential:	Bioaccumulation is unlikely.
Mobility in soil:	The product is water soluble and may spread in water systems
Results of PBT and vPvB assessment:	The mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). The mixture contains no substance considered to be verypersistent nor very bioaccumulating (vPvB).
Other adverse effects:	None known

### 13. Disposal Consideration

Dispose of hazardous waste in compliance with local and national regulations.  
 Dispose of in accordance with the European Directives on waste and hazardous waste.

Empty containers should be taken to an approved waste handling site for recycling or disposal.  
 Dispose of in accordance with local regulations.

### 14. Transport Information

The product is not classified as dangerous (nor regulated) for transport.

European legislation for international transport:

ADR/RID: not applicable

ADNR: not applicable

IMDG: not applicable

IATA: not applicable

### 15. Regulatory Information

The substance complies with article 16 of regulation 689/2008 on the export and import of hazardous chemical products. WGK classification 1.

It complies with regulation 882/2004 relative to the official controls undertaken to check conformity with the legislation on animal feed and foodstuffs and regulation 178/2002 establishing the general prescriptions of the food legislation instituting the European Food Safety Authority and fixing procedures on the safety of foodstuffs.

Chemical safety assessment: The substance has not been subject to an evaluation of chemical safety

### 16. Other Information

#### Description of the sentences of risk set out in paragraph 3:

H334 = May cause allergy or asthma symptoms or breathing difficulties if inhaled

#### Description of the safety advice (R) exposed to point 3:

R42 = May cause sensitization by inhalation

*Classification based by calculation on data of all components of the mixture.*

**GHS classification** – the GHS calculation method has been used for this mixture

#### Additional information

The format of this safety data sheet complies with regulation CE/453/2010. A REACH

registration number may be allocated to enzymes owing to their possible technical applications. Enzymes used as manufacturing auxiliaries for the 'food' or 'feed' product industries are exempt from REACH registration, including the establishing of scenarios of exposure. The legislation in force applicable to these areas must be taken into account.

#### **GENERAL BIBLIOGRAPHY:**

1. Directive 1999/45/EC as amended
2. Directive 67/548/EEC and its amendments and adjustments (technical adjustment XXIX)
3. Regulation (EC) 1907/2006 of the European Parliament (REACH)
4. Regulation (EC) 1272/2008 of the European Parliament (CLP)
5. Regulation (EC) 790 / 2009
6. Regulation (EU) 453/2010
7. The Merck Index. Ed 10
8. Handling Chemical Safety
9. NIOSH - Registry of Toxic Effects of Chemical Substances
10. INRS - Fiche Toxicologique
11. Patty - Industrial Hygiene and Toxicology
12. NI Sax - Dangerous Properties of Industrial Materials-7, 1989 Edition

#### **Note for users:**

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product. This document must not be regarded as a guarantee on any specific product property. The use of this product is not subject to our direct control, therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

#### **This sheet cancels and substitutes any previous edition**

Harris Homecraft Ltd has compiled the information contained in this data sheet to the best of its own knowledge and of available reliable data.

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