

## Safety Data Sheet

# Aromazyme



Version: 1  
Version date: 05/04/2024  
Language: EN  
According to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No. 2020/878)

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

**Trade name/designation** : Aromazyme.

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses** : For use in brewing.

**Uses advised against** : No data available.

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

**Supplier** : **Name:** Danstar Ferment AG  
Subsidiary of Lallemand Inc.  
**Street:** Baronessens Kvarter 6P  
**Postal code/City:** 7000 Fredericia  
**Country:** Denmark  
**Telephone:** +43 2236 50 62 99 64  
**E-mail:** Brewingorders@lallemand.com

### 1.4. Emergency Telephone Number

Contact your local doctor or hospital.

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Classification according to the regulation (EC) n°1272/2008 (CLP) and its amendments

#### Hazards identification:

H334 Resp. Sens. 1 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### 2.2. Label elements

Label elements according to the regulation (EC) n°1272/2008 (CLP) and its amendments

#### Labelling

#### Hazard pictograms



#### Signal word

Danger

#### Hazard Statements

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

#### Precautionary Statements - Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P285 In case of inadequate ventilation wear respiratory protection.

#### Precautionary Statements - Response

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor/...

P304+P341 If INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable to breathing.

#### Precautionary Statements - Disposal

P501 Dispose of contents/container in accordance to local/national/international regulation.

### 2.3. Other hazards

According to Regulation (EU) 1907/2006, no substances are assessed as PBT or vPvB.

According to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, no substances are known to have endocrine disrupting properties.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

In accordance with the product knowledge, no nanomaterials have been identified.

The mixture does not contain any substances classified as Substances of Very High Concern (SVHC) by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>.

Substance	Concentration (%)	Specific concentration limits	Classification
<b>Polygalacturonase</b>			
CAS N°	9032-75-1	1.0% ≤ C ≤ 10.0%	H334 Resp. Sens. 1
EC N°	232-885-6		
IDX N°			
Registration number			
<b>Glucosidase, β-</b>			
CAS N°	9001-22-3	1.0% ≤ C ≤ 10.0%	H334 Resp. Sens. 1
EC N°	232-589-7		
IDX N°	647-001-00-8		
Registration number			

#### Remark

Text phrases and H- EUH-: see section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Do not leave affected person unattended.

Remove victim out of the danger area.

#### Following inhalation:

Remove person to fresh air and keep comfortable for breathing.

If the victim is unconscious but breathing normally, place her in recovery position and seek medical advice.

In case of allergic symptoms, especially in the breathing area, seek medical advice immediately.

No resuscitation mouth-to-mouth or mouth-to-nose. Ambu use a mask or respirator.

If breathing is irregular or stopped, administer artificial respiration.

#### Following skin contact:

Wash with soap and water.

Change contaminated, saturated clothing.

#### Following eye contact:

In case of eye irritation consult an ophthalmologist.

Rinse immediately carefully and thoroughly with eye-bath or water.

#### Following ingestion:

Never give anything by mouth to an unconscious person or a person with cramps.

IF SWALLOWED: Rinse mouth.

Do NOT induce vomiting.

#### Self-protection of the first aider:

First aider: Pay attention to self-protection!

### 4.2. Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

### 4.3. Indication of any immediate medical attention and special treatment needed

#### Notes for the doctor:

Treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### Suitable extinguishing media:

Foam.

Extinguishing powder.

Carbon dioxide (CO<sub>2</sub>).

Sand.

#### Unsuitable extinguishing media:

Strong water jet.

## 5.2. Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

## 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

### Additional information

Do not inhale vapors and fumes.

Co-ordinate fire-fighting measures to the fire surroundings.

Move undamaged containers from immediate hazard area if it can be done safely.

Use caution when applying carbon dioxide in confined spaces. carbon dioxide can displace oxygen.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protection equipment. Avoid contact with eyes, skin and clothing.

Remove persons to safety.

Use appropriate respiratory protection.

Provide adequate ventilation.

### 6.2. Environmental precautions

Ensure that waste is collected and contained.

### 6.3. Methods and material for containment and cleaning up

Treat the recovered material as prescribed in the section on waste disposal.

Collect in closed and suitable containers for disposal.

Clean contaminated objects and areas thoroughly observing environmental regulations.

Ventilate affected area.

### 6.4. Reference to other sections

Safe handling: see section 7.

Disposal: see section 13.

Personal protection equipment: see section 8.

### Additional information

Not available

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Avoid exposure - obtain special instructions before use.

#### PROTECTIVE MEASURES:

Avoid contact with skin, eyes and clothes.

Use only in well-ventilated areas.

If local exhaust ventilation is not possible or not enough, the entire work area must be ventilated by technical means.

Provide adequate ventilation as well as local exhaustion at critical locations.

Sewers and ducts must be protected against the entry of the product.

Avoid breathing dust. Avoid contact with eyes.

#### Advices on general occupational hygiene:

Wash hands before breaks and after work.

Remove contaminated, saturated clothing immediately.

Work in well ventilated zones or use proper respiratory protection.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed original container in a dry, cool, and well-ventilated place.

Keep container in upright position in order to prevent leakage.

#### Requirements for storage rooms and vessels:

Ensure adequate ventilation of the storage area.

#### Advice on joint storage:

Keep away from food, drink and animal feeding stuffs.

### 7.3. Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Occupational exposure limits:

Does not contain substances above concentration limits fixing an occupational exposure limit.

#### Biological limit values:

Not available

#### Exposure limits at intended use:

Not available

**Remark:**

Not available

**8.2. Exposure controls****Appropriate engineering controls:**

Technical measures and the application of suitable work processes have priority over personal protection equipment. Provide adequate ventilation as well as local exhaustion at critical locations.

**Individual protection measures, such as personal protective equipment:****Eye/face protection**: **Suitable eye protection:**

Protective glasses should be worn in conditions of excessive dusting.

**Skin protection**: **Hand protection:****Suitable gloves type:**

Gloves are recommended. Wash and dry hands

**Suitable material:**

Butyl caoutchouc (butyl rubber).

**Body protection:****Suitable protective clothing:**

Wear appropriate clothing for work/ Lab coat.

**Respiratory protection**: **Respiratory protection necessary at:**

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

**Suitable respiratory protection apparatus:**

Wear respiratory protection.(P3 protective mask)

**Remark:**

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Observe the wear time limits as specified by the manufacturer.

Use only respiratory protection equipment with CE-symbol including four digit test number.

**Environmental exposure controls:**

Not available

**Consumer exposure controls:**

Not available

**Additional information**

Not available

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

<b>Physical state</b>	:	Solid, powder
<b>Colour</b>	:	White/grey
<b>Odour</b>	:	Not available
<b>pH</b>	:	Not applicable
<b>Melting point/freezing point</b>	:	Not available
<b>Initial boiling point and boiling range</b>	:	Not applicable
<b>Flash point</b>	:	Not applicable
<b>Flammability</b>	:	Not available
<b>Upper/lower flammability or explosive limits</b>	:	Not applicable
<b>Vapour pressure</b>	:	Not available
<b>Vapour density</b>	:	Not applicable
<b>Relative density</b>	:	Not available
<b>Solubility in water</b>	:	dispersible
<b>Partition coefficient n-octanol/water (log value)</b>	:	Not applicable
<b>Auto-ignition temperature</b>	:	Not applicable
<b>Decomposition temperature</b>	:	Not available
<b>Kinematic viscosity</b>	:	Not available
<b>Solubility in other Solvents</b>	:	Not available
<b>Particle characteristics</b>	:	Not available

**9.2. Other safety information**

Information concerning to the classes of physical hazards

Not available

**Other security characteristics**

Not available

**SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity**

The product is not reactive.

**10.2. Chemical stability**

The product is stable when stored at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

**10.4. Conditions to avoid**

No data available.

**10.5. Incompatible materials**

No data available.

**10.6. Hazardous decomposition products**

Does not decompose when used for intended uses.

**Additional information**

Not available

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity:**

The product is not classified.

**Substances:**

Not available

**Acute dermal toxicity:**

The product is not classified.

**Substances:**

Not available

**Acute inhalation toxicity:**

The product is not classified.

**Substances:**

Not available

**Skin corrosion/irritation:**

Possible irritation to skin.

**Substances:**

Not available

**Serious eye damage/irritation:**

Possible irritation to eye.

**Substances:**

Not available

**Skin sensitisation:**

Possible allergic reaction or sensitization.

**Substances:**

Not available

**Specific target organ toxicity (repeated exposure):**

The product is not classified.

**Substances:**

Not available

**Specific target organ toxicity (single exposure):**

The product is not classified.

**Substances:**

Not available

**Carcinogenicity:**

The product is not classified.

**Substances:**

Not available

**Reproductive toxicity:**

The product is not classified.

**Substances:**

Not available

**Germ cell mutagenicity:**

The product is not classified.

**Substances:**

Not available

**Sensitisation to the respiratory tract:**

Possible allergic reaction or sensitization.

**Substances:**

Not available

**Additional information:**

Chronic effect: Once sensitised, a strong allergic reaction may be triggered upon later exposure to very low levels.

Eye contact: May cause irritation of the eyes (redness).

Skin contact: Prolonged or repeated contact with the skin may cause irritation.

Inhalation: May cause coughing (irritation) or irritate asthma. May cause sensitization. Subsequent chronic or acute exposure in sensitized persons may cause a respiratory allergic reaction, including asthmatic bronchitis, in minutes or delayed.

Ingestion: Ingestion of the product may elicit gastrointestinal problems.

**11.2. Information on other hazards****Endocrine disrupting properties:**

According to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, no substances are known to have endocrine disrupting properties.

**SECTION 12: ECOLOGICAL INFORMATION****12.1. Toxicity**

Based on available data, the classification criteria are not met.

**Substances:**

Not available

**12.2. Persistence and degradability**

No persistence and the substance is bio-degradable.

**Substances:**

Not available

**12.3. Bioaccumulative potential**

None.

**Substances:**

Not available

**12.4. Mobility in soil**

The product has not been tested.

**Substances:**

Not available

**12.5. Results of PBT and vPvB assessment**

According to Regulation (EU) 1907/2006, no substances are assessed as PBT or vPvB.

**12.6. Endocrine disrupting properties**

According to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, no substances are known to have endocrine disrupting properties.

**12.7. Other adverse effects**

Not available

**Additional ecotoxicological information**

Not available

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods****Product/Packaging disposal:****Waste codes/waste designations according to EWC/AVV:**

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

**Waste treatment options:****Appropriate disposal/Product:**

Dispose of waste according to applicable legislation.

**Appropriate disposal/Package:**

Dispose of waste according to applicable legislation.

**Remark:**

Concerning the waste it has to be checked, whether a transport authorisation is required.

**Additional information**

Not available

**SECTION 14: TRANSPORT INFORMATION**

**14.1. UN number**

Not available

**14.2. UN proper shipping name**

Not available

**14.3. Transport hazard class(es)**

Not classified as dangerous.

**14.4. Packing group**

Not available

**14.5. Environmental hazards**

None

**14.6. Special precautions for user**

None

**14.7. Bulk shipping according to IMO instruments**

Not available

**Additional information**

Not available

**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

This SDS has been established in accordance with REACH regulation, including its amendments: REACH Regulation (EC) No 1907/2006. This SDS has been established in accordance with CLP regulation, including its amendments: CLP Regulation EC No. 1272/2008.

**15.2. Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

**Additional information**

Not available

**SECTION 16: OTHER INFORMATION****Indication of changes**

Not applicable (first edition of the MSDS).

**Abbreviations and acronyms**

CAS: Chemical Abstract Service Number.

IATA: International Air Transport Association.

IMDG: International Maritime Dangerous Goods Code.

DPD Dangerous Preparation Directive.

UN number: United Nations number.

No EC: European Commission Number.

ADN/ADNR: Regulations concerning the transport of dangerous substances in barges on the waterways.

ADR/RID: European Agreement concerning the International Carriage of Dangerous Goods by Road/Regulations concerning the international carriage of dangerous goods by rail.

CLP: Classification, labeling and packaging.

VPvB: very persistent and very bioaccumulative substances.

**Key literature references and sources for data**

No data available.

**Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]**

Classification of the mixture is in accordance with the evaluation method described in Regulation (EC) No 1272/2008.

Complies with ATP 18, Regulation (EU) n°2022/692.

**Relevant R-, H- and EUH-phrases (Number and full text)**

H334 Resp. Sens. 1 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Training advice**

Refer to Sections 4, 5, 6, 7 and 8 of this safety data sheet.

**Additional information**

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The information given in this Safety Data Sheet is based on our present knowledge and national regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it doesn't guarantee all the product properties particularly in the case of non identified uses. The product mustn't be used for any uses other than those identified under heading 1. Since the user's working conditions are not known by us, it is the responsibility of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.