

*A safety data sheet is not required for this product under US, CAN and EU regulation.  
This document has been created on a voluntary basis to pass on safety information*

## SECTION 1 – IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

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- 1.1 Product identifier:** **Chitosan**
- 1.2 Identified use:** For use in wine making
- 1.3 Supplier details:** DANSTAR FERMENT AG  
Subsidiary of Lallemand Inc.  
Vejlevej 10  
Fredericia  
DK-7000 Denmark  
Tel: +45 76 22 32 85 Email: [fb.france@lallemand.com](mailto:fb.france@lallemand.com)
- 1.4 Emergency telephone:** Contact your local doctor or hospital.

## SECTION 2 – HAZARD IDENTIFICATION

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- 2.1 Classification of the substance/mixture according to the Globally Harmonized System (GHS) and to Regulation 1272/2008/CE (CLP):** Not dangerous
- 2.2 Label elements:** None
- 2.3 Other Hazards:** None

## SECTION 3 – INFORMATION ON INGREDIENTS

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Substance component(s) which may pose a health hazard: none.

## SECTION 4 – FIRST AID MEASURES

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### 4.1 Description of First Aid Measures:

- Eye contact: ..... Adequately flush eyes with water.
- Skin contact: ..... Wash affected area with soap and water.
- Inhalation: ..... Immediately remove person to fresh air.
- Ingestion: ..... Rinse mouth and throat thoroughly with water. Drink plenty of water.

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

- Eye contact: ..... Possible irritation
- Skin contact: ..... May cause irritation
- Inhalation: ..... May cause coughing (irritation) or irritate asthma. May cause sensitization.
- Ingestion: ..... Possible bloating, gas, and bowel discomfort.

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

None; if any symptom persists seek medical attention.

## SECTION 5 – FIRE FIGHTING MEASURES

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### 5.1 Extinguishing media:

- Suitable: ..... Water, foam, carbon dioxide, dry powder.
- Unsuitable: ..... None

### 5.2 Special hazards arising from the material:

None

### 5.3 Advice to firefighters:

Wear a self-contained breathing apparatus (SCBA) when exposed to confined or enclosed fires as product powder could be in the air.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

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### 6.1 Personnel precautions:

Avoid contact with the eyes, skin and clothing. Use appropriate protective equipment (see Section 8).

### 6.2 Environmental precautions: None

### 6.3 Method and materials for clean up:

*Small accidental spillage or leak:* Avoid the formation of dust or spray. Mop up with appropriate material. Place in an appropriate container. Clean the area affected with plenty of water.

*Large accidental spillage or leak:* Avoid the formation of dust or spray. Prevent spillage into the drains, subsoil or confined areas. Contain if necessary. Mop up the product spilled with inert material (e.g. dry sand or dry earth) and place in a chemical waste container. Recycle if possible.

### 6.4 References to other sections:

See Section 8 for personal protective equipment and section 13 for waste disposal.

## SECTION 7 – HANDLING & STORAGE

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### 7.1 Precautions for safe handling:

Handling:..... Avoid breathing dust. Avoid contact with eyes.

Occupational hygiene: ..... Wash hands thoroughly after handling.

### 7.2 Conditions for safe storage:

Risks: ..... Not at risk for corrosion, fire, explosion, or chemical reaction.

Place of storage:..... No special instruction to minimize risks (see above).

Store according to label directions to maintain label guarantees.

Fire/explosion protection: ..... None needed

7.3 Specific end use: ..... None

## SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

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### 8.1 Control parameters:

Exposure limits: ..... No limit

Biological limits: ..... No limit

### 8.2 Exposure controls:

Engineering: ..... None

Eye/face protection: ..... Protective glasses should be worn in conditions of excessive dusting.

Skin protection:..... Hand: None

Other: None. Wear appropriate clothing for work.

Respiratory protection: ..... P3 protective mask should be worn.

Thermal protection: ..... None

Environmental exposure: ..... None

## SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

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### 9.1 Information on basic physical and chemical properties:

Appearance:..... Beige to light brown powder

Odour:..... Typical yeast smell

Solubility:..... Partially soluble

Odour threshold; pH; Melting point/Freezing point; Initial boiling point and boiling range; Flash point; Evaporation rate; Flammability; Vapour pressure; Vapour density; Relative density; Partition coefficient (n-octanol/water); Auto-ignition temperature; Decomposition temperature; Viscosity; Explosive properties; Oxidising properties: Not Applicable

9.2 Other information: None

**SECTION 10 – STABILITY AND REACTIVITY**

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- 10.1 Reactivity:.....Not reactive  
10.2 Chemical stability: .....Stable  
10.3 Possibility of hazardous reactions: .....None  
10.4 Conditions to avoid:.....None  
10.5 Incompatible materials: .....None  
10.6 Hazardous decomposition products: .....None

**SECTION 11 – TOXICOLOGICAL INFORMATION**

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**11.1 Information on toxicological effects:**

- Acute toxicity: .....No known effects.  
Skin corrosion/irritation:.....Possible irritation to skin  
Eye damage/irritation:.....Possible irritation to eye  
Respiratory /Skin sensitization: .....Possible allergic reaction or sensitization  
CMR (Carcinogenity, germ cell Mutagenicity, Reproductive toxicity): ..No known effects  
Chronic effects: .....No known effects

**SECTION 12 – ECOLOGICAL INFORMATION**

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- 12.1 Toxicity:.....No known ecological effects.  
12.2 Persistence and degradability: .....No persistence and the substance is bio-degradable.  
12.3 Bioaccumulative potential: .....None  
12.4 Mobility in soil: .....Not relevant  
12.5 Results of PBT and vPvB assessment: .....Not relevant  
12.6 Other adverse effects: .....None

**SECTION 13 – DISPOSAL CONSIDERATIONS**

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**13.1 Waste treatment methods:**

Product and packaging can be disposed of in regular trash or waste. No special disposal method required. Follow all applicable local laws for recycling, bagging, and disposal of trash.

**SECTION 14 – TRANSPORT INFORMATION**

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- 14.1 UN Number: .....Not relevant  
14.2 UN proper shipping name: .....Not relevant  
14.3 Transportation hazard class: .....Not classified as dangerous  
14.4 Packing group:.....Not relevant  
14.5 Environmental hazards: .....None  
14.6 Special precautions: .....None  
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not relevant

**SECTION 15 – REGULATORY INFORMATION**

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**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

The format and content of this voluntary safety data sheet is based on regulations requirements However, some information may not be included because it is not relevant for this type of product.

- 15.2 Chemical safety assessment: Not relevant

## SECTION 16 – OTHER INFORMATION

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Disclaimer: The information, data and recommendations contained in this SDS are provided in good faith, obtained from reliable sources, and believed to be true and accurate as of the date of revision. The SDS serves as description of the products in regard to necessary safety measures. No warranty, expressed or implied, regarding the product described in this SDS shall be created or inferred by any statement in this SDS.

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