

SAFETY DATA SHEET

BioRen® Premium 97PHA100

Version: 2 EU / EN

Revision Date: 12-05-2021

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name: BioRen® Premium 97PHA100
Material No.: 410114

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

Application: Milk-clotting enzyme for cheese making and rennet casein products.

1.3 Details of the supplier of the safety data sheet

Supplier: Headquarters
Chr. Hansen A/S
Bøge Allé 10-12
DK-2970 Hørsholm
Tel. +45 45 74 74 74

SDS@chr-hansen.com

1.4 Emergency telephone number

Emergency telephone: +45 45 74 74 74

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

The product is not classified, but must be labeled.

2.2 Label elements

Signal Word None.

Hazard statements None.

Precautionary statements None.

Supplemental hazard information

EUH210 - Safety data sheet available on request.

Contains: rennin.

May produce an allergic reaction.

2.3 Other hazards

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Physical and Chemical Hazards: The hazardous properties of the product are considered to be limited.

Human health: Dust may irritate the eyes and the respiratory system. The product contains a small amount of sensitising substance which may provoke an allergic reaction among sensitive individuals. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

Environment: The harmful effects of the product in the environment are considered to be limited.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

The product contains: enzymes.

The following substances shall be indicated according to legislation:

<u>Chemical Name</u>	<u>CAS-No</u>	<u>EC No:</u>	<u>%</u>	<u>CLP</u>	<u>Notes:</u>
rennin	9001-98-3	232-645-0	0.1 - 1	Resp. Sens. 1; H334 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315	

The Full Text for all H-Statements are Displayed in Section 16.

SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures

Inhalation: Move into fresh air and keep at rest. In case of persistent throat irritation or coughing: Seek medical attention and take along these instructions.

Skin contact: Remove contaminated clothes and rinse skin thoroughly with water. In case of rashes, wounds or other skin disorders: Seek medical attention and bring along these instructions.

Eye contact: Do not rub eye. Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists continue rinsing and transport to hospital taking these instructions.

Ingestion: Rinse mouth thoroughly. If uncomfortable: Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Dust may irritate the eyes and the respiratory system. The product contains a small amount of sensitising substance which may provoke an allergic reaction among sensitive individuals. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

5.2 Special hazards arising from the substance or mixture

No specific precautions.

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5.3 Advice for firefighters

Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhalation of dust and contact with skin and eyes. Avoid generation and spreading of dust. Follow precautions for safe handling described in this safety data sheet.

6.2 Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3 Methods and material for containment and cleaning up

Use a vacuum cleaner. If not possible, moisten dust with water before it is collected with shovel, broom or the like. Flush contaminated area with plenty of water. Never use high pressure water jet.

6.4 Reference to other sections

For personal protection, see section 8.

For waste disposal, see section 13.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Safe handling advice: Avoid inhalation of dust and contact with skin and eyes. Observe good industrial hygiene practices.

Technical measures: Keep the workplace clean. Avoid generation and spreading of dust. Ensure appropriate exhaust and ventilation at machinery and at places where dust can be generated.

Technical precautions: Local exhaust is recommended.

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed original container. Store at ambient temperature conditions. For detailed information consult the PI sheet.

Protect against direct sunlight. Store in a dry place.

Technical measures for safe storage: No special precautions.

7.3 Specific end use(s)

No information available.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure limits are listed below. No data - no exposure limits noted for ingredient(s).

Occupational exposure limits: Dust inhalable: 10 mg/m³. Dust respirable: 4 mg/m³.

8.2 Exposure controls

Engineering measures: Provide adequate ventilation. The risk of inhalation of dust must be minimised as much as possible.

Personal protection: Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment

Respiratory equipment: In case of inadequate ventilation: Use respiratory equipment with particle filter, type P3. The use of filtering respirators should be limited to max. 3 hours per day.

Hand protection: Gloves are recommended for prolonged use. Nitrile gloves are recommended. Other types of gloves can be recommended by the glove supplier.

Eye protection: Use tight fitting goggles if dust is generated.

Skin protection: Wear suitable protective clothing.

Hygiene measures: Wash hands after contact. Change contaminated clothing.

Environmental Exposure Controls: None.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Granulate
Color:	Off-white to brownish
Odour:	Characteristic
pH:	Not relevant
Melting point:	Not relevant
Boiling point:	Not relevant
Decomposition temperature:	Not relevant
Flash point:	Not relevant
Relative density:	1.00
Solubility:	Water soluble

9.2 Other information

No information available.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

None known.

10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

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10.3 Possibility of hazardous reactions

None known.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

None known.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Inhalation: Dust may irritate throat and respiratory system and cause coughing. The product contains a small amount of sensitising substance which may provoke an allergic reaction among sensitive individuals. May cause sensitisation by inhalation.

Skin contact: Dust has an irritating effect on moist skin.

Eye contact: May cause temporary eye irritation.

Ingestion: May irritate and cause malaise.

Specific effects: Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases. Risk of sensitisation or allergic reactions among sensitive individuals.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

The harmful effects of the product in the environment are considered to be limited.

12.2 Persistence and degradability

The product is expected to be biodegradable.

12.3 Bioaccumulative potential

Bioaccumulation: Is not expected to be bioaccumulable.

12.4 Mobility in soil

The product is water soluble and may spread in water systems.

12.5 Results of PBT and vPvB assessment

No information required.

12.6 Other adverse effects

None known.

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SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

EWC-code: 02 05 01 (Dairy product industry)

SECTION 14. TRANSPORT INFORMATION

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR).

14.1 UN number -

Air (ICAO/IATA):

14.3 Transport hazard class(es) -

14.4 Packing group -

Sea (IMDG):

14.3 Transport hazard class(es) -

14.4 Packing group -

EmS -

MFAG -

Land (RID/ADR):

14.3 Transport hazard class(es) -

14.4 Packing group -

14.5 Environmental hazards

Marine pollutant (IMDG): -

14.6 Special precautions for user

None known.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant.

SECTION 15. REGULATORY INFORMATION

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

National regulation:

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

Regulation (EC) No 1907/2006 of the European parliament and of the council of 18 December 2006 with amendments.

Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments.

15.2 Chemical safety assessment:

Not required.

SECTION 16. OTHER INFORMATION

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The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

The following sections contain revisions or new statements : 1.

Wording of Hazard Statements

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

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

H335 - May cause respiratory irritation.

The information in this Safety Data Sheet has been obtained from current and reliable sources. However, the data is provided without warranty, express or implied, regarding its correctness or accuracy. It is the user's responsibility to determine safe conditions for use of this product and to assume liability for loss, injury, damage, or expense resulting from improper use of this product.