

SAFETY DATA SHEET

NATUREN® Premium 145

Version: 6 EU / EN

Revision Date: 29-01-2015

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

1.1 Product identifier

Product name: NATUREN® Premium 145
Material No.: 113504

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.

2.2 Label elements

Signal Word None.

Hazard statements None.

Precautionary statements None.

Supplemental hazard information

None

2.3 Other hazards

SAFETY DATA SHEET

NATUREN® Premium 145

Version: 6 EU / EN

Revision Date: 29-01-2015

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

Human health: Prolonged skin contact may cause redness and irritation.

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.

Does not contain substances that must be indicated according to current regulations.

<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 - 0.1	Resp. Sens. 1; H334 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315	

SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures

Inhalation: Move into fresh air and keep at rest.

Skin contact: Remove contaminated clothing immediately and wash skin with soap and water. In case of rashes, wounds or other skin disorders: Seek medical attention and bring along these instructions.

Eye contact: Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.

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

4.2 Most important symptoms and effects, both acute and delayed

Prolonged skin contact may cause redness and irritation.

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.

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

SAFETY DATA SHEET

NATUREN® Premium 145

Version: 6 EU / EN

Revision Date: 29-01-2015

- 6.1 Personal precautions, protective equipment and emergency procedures
Avoid contact with skin and eyes. 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
Flush away small spillages with plenty of water.
Large quantities: Absorb spillage with suitable absorbent material. Flush contaminated area with plenty of water.
 - 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 contact with skin and eyes. Observe good industrial hygiene practices.
Technical measures: Keep the workplace clean.
Technical precautions: No special precautions.
 - 7.2 Conditions for safe storage, including any incompatibilities
Store in tightly closed original container. Store at refrigerated temperature conditions. For detailed information consult the PI sheet.
Store in a dry place. Protect against direct sunlight.
Technical measures for safe storage: No special precautions.
 - 7.3 Specific end use(s)
No information available.
-

SAFETY DATA SHEET

NATUREN® Premium 145

Version: 6 EU / EN

Revision Date: 29-01-2015

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

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

8.2 Exposure controls

Engineering measures: Provide adequate ventilation. Minimise the risk of inhalation of vapors and mist.

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: Not relevant.

Hand protection: Gloves are recommended for prolonged use. Nitrile gloves are recommended. Other types of gloves can be recommended by the glove supplier. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.

Eye protection: Risk of contact: Wear goggles/face shield.

Skin protection: No special precautions.

Hygiene measures: Wash hands after contact.

Environmental Exposure Controls: None.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Liquid
Color:	Yellowish to amber
Odour:	Characteristic
pH:	5.30 - 5.80
Melting point:	Not relevant
Boiling point:	Not relevant
Decomposition temperature:	Not relevant
Flash point:	Not relevant
Relative density:	1.13 - 1.14
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.

10.3 Possibility of hazardous reactions

None known.

SAFETY DATA SHEET

NATUREN® Premium 145

Version: 6 EU / EN

Revision Date: 29-01-2015

- 10.4 Conditions to avoid
Avoid exposure to high temperatures or direct sunlight.
- 10.5 Incompatible materials
None known.
- 10.6 Hazardous decomposition products
None known.
-

SECTION 11. TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects
- Inhalation: Not relevant at normal room temperatures.
- Skin contact: Prolonged contact may cause redness, irritation and cracking.
- Eye contact: May cause temporary eye irritation.
- Ingestion: May irritate and cause malaise.
- Specific effects: None known, unless listed below.
-

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.
-

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)
-

SAFETY DATA SHEET

NATUREN® Premium 145

Version: 6 EU / EN

Revision Date: 29-01-2015

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 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.

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.

15.2 Chemical safety assessment:
Not required.

SECTION 16. OTHER INFORMATION

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 : 2, 16.

Wording of Hazard Statements

-

SAFETY DATA SHEET

NATUREN® Premium 145

Version: 6 EU / EN

Revision Date: 29-01-2015

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.