

SAFETY DATA SHEET

CHY-MAX® Plus

Version: 3-FI/EN

Revision Date: 29-08-2013

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

1.1 Product identifier

Product name: CHY-MAX® Plus

Material No.: 117404

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

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

1.3 Details of the supplier of the safety data sheet

Supplier: Chr. Hansen A/S
Boege Allé 10-12
DK-2970 Hoersholm
Tel. +45 45 74 74 74

SDS@chr-hansen.com

1.4 Emergency telephone number +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

Not required.

2.3 Other hazards

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.

SAFETY DATA SHEET

CHY-MAX® Plus

Version: 3-FI/EN

Revision Date: 29-08-2013

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>Hazard classification:</u>	<u>CLP</u>	<u>Notes:</u>
glycerol	56-81-5	200-289-5	1 - 5	-	-	WADA

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

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

SAFETY DATA SHEET

CHY-MAX® Plus

Version: 3-FI/EN

Revision Date: 29-08-2013

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 at a temperature: 0 - 8 °C / 32 - 46 °F .

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

CHY-MAX® Plus

Version: 3-FI/EN

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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).

<u>Chemical Name</u>	<u>Exposure limits</u>	<u>Notes</u>
glycerol	WEL-TWA: 10 mg/m ³	

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:	Colorless to amber
Odour:	Characteristic
pH:	5.50 - 6.00
Melting point (°C):	Not relevant
Boiling point (°C):	Not relevant
Decomposition temperature (°C):	Not relevant
Flash point (°C):	Not relevant
Relative density:	1.08 - 1.12
Solubility:	Water soluble

9.2 Other information

No information available.

SECTION 10. STABILITY AND REACTIVITY

SAFETY DATA SHEET

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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.

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.

SAFETY DATA SHEET

CHY-MAX® Plus

Version: 3-FI/EN

Revision Date: 29-08-2013

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)

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

SAFETY DATA SHEET

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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, 3, 15, 16.

Wording of Risk Phrases

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Wording of Hazard Statements

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CLP - Classification of the substance or mixture

The product is not classified.

CLP - Label elements

Not required.

Hazard statements

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Precautionary statements

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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.