

SAFETY DATA SHEET

FD-DVS YoFlex® Mild 1.0

Version: 1-EU/EN

Revision Date: 19-11-2013

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

1.1 Product identifier

Product name: FD-DVS YoFlex® Mild 1.0

Material No.: 703027

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

For food application.

Not for spray application.

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 +45 45 74 74 74

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Directive 1272/2008/EC

The product is not classified.

Directive 67/548/EC

The product is not classified.

2.2 Label elements

Directive 1272/2008/EC

Not required.

Hazard statements

-

Precautionary statements

-

Directive 67/548/EC

SAFETY DATA SHEET

FD-DVS YoFlex® Mild 1.0

Version: 1-EU/EN

Revision Date: 19-11-2013

Not required.

2.3 Other hazards

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

Powder: In high concentrations, fine particles may form explosive dust/air mixtures.

Human health: Dust may irritate the eyes and the respiratory system. 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: bacteria.

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>Hazard classification:</u> | <u>CLP</u> | <u>Notes:</u> |
|----------------------|---------------|---------------|----------|-------------------------------|------------|---------------|
| gum arabic | 9000-01-5 | 232-519-5 | 1 - 5 | - | - | - |

Listed substances: For information purposes only.

SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures

Inhalation: Dust 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 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: 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: 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

Dust may irritate the eyes and the respiratory system. 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.

SAFETY DATA SHEET

FD-DVS YoFlex® Mild 1.0

Version: 1-EU/EN

Revision Date: 19-11-2013

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

Granulate: No specific precautions.

Powder: Potential dust explosion hazard. Fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard.

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. Avoid contact with 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

Collect spillage with shovel, broom or the like.

Powder: Dust Deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air.

6.4 Reference to other sections

For personal protection, see section 8.

For waste disposal, see section 13.

SAFETY DATA SHEET

FD-DVS YoFlex® Mild 1.0

Version: 1-EU/EN

Revision Date: 19-11-2013

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Safe handling advice: Avoid inhalation of dust. Avoid contact with eyes. Observe good industrial hygiene practices.
Technical measures: Keep the workplace clean. Avoid generation, spreading and accumulation of dust.
Powder: Large quantities: Ensure appropriate exhaust and ventilation at machinery and at places where dust can be generated. Take precautionary measures against static discharges when there is a risk of dust explosion.
Technical precautions: Mechanical ventilation may be required.

7.2 Conditions for safe storage, including any incompatibilities

Store in tightly closed original container. Store at deep frozen temperature conditions. For detailed information consult PI sheet.
Protect against direct sunlight. Store in a dry place.
Technical measures for safe storage: Granulate: No special precautions.
Powder: Risk of dust explosion: Comply with the regulations on protection against dust explosions.

7.3 Specific end use(s)

No information available.

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. Use work methods which minimise dust production.
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:
EU: FFP3 filter [e.g. 3M 8835 mask]
US: P100 filter [e.g. 3M 8293 mask]
For daily use of more than 3 hours a respirator with a powered air blower should be used.
Hand protection: Gloves are recommended for prolonged use.
Eye protection: Use tight fitting goggles if dust is generated.
Skin protection: No special precautions.
Hygiene measures: Wash hands after contact.
Environmental Exposure Controls: None.

SAFETY DATA SHEET

FD-DVS YoFlex® Mild 1.0

Version: 1-EU/EN

Revision Date: 19-11-2013

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | |
|----------------------------|--|
| Appearance: | Granulate |
| Color: | Off-white to slightly reddish or brown |
| Odour: | Peptone-like |
| pH: | 6.00 - 7.00 |
| Melting point: | Not relevant |
| Boiling point: | Not relevant |
| Decomposition temperature: | Not relevant |
| Flash point: | Not relevant |
| Relative density: | Not available |
| 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.

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: In high concentrations: Dust may irritate respiratory system. Inhalation of high concentrations of dust or aerosols may cause toxic alveolitis. Symptoms like fever, coldshivering, coughing, difficulties in breathing, headache, muscle and joint pains etc. may appear 6 to 8 hours after exposure. The symptoms normally disappear completely over night without any treatment.

SAFETY DATA SHEET

FD-DVS YoFlex® Mild 1.0

Version: 1-EU/EN

Revision Date: 19-11-2013

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

Eye contact: Dust in the eyes will cause 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

FD-DVS YoFlex® Mild 1.0

Version: 1-EU/EN

Revision Date: 19-11-2013

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

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

SAFETY DATA SHEET

FD-DVS YoFlex® Mild 1.0

Version: 1-EU/EN

Revision Date: 19-11-2013

Wording of Risk Phrases

-

Wording of Hazard Statements

-

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.