



# Safety Data Sheet

## F-DVS Viniflora® FrootZen™

Version: 4 US / EN

Revision Date: 08-04-2015

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

#### 1.1 Product identifier

Product name: F-DVS Viniflora® FrootZen™  
Material No: 703559

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

Application: For wine application.

#### 1.3 Details of the supplier of the safety data sheet

Supplier: Chr. Hansen Inc.  
9015 West Maple Street  
53214-4298 Milwaukee - WI  
Phone: +1 414 607-5700

Headquarters: Chr. Hansen A/S  
Boge Allé 10-12  
DK-2970 Horsholm  
Tel. +45 45 74 74 74

#### 1.4 Emergency telephone number

Emergency telephone: Health: 1-800-558-0802 (Monday through Friday, 7:30 AM to 5 PM CST) at other times, contact Chemtrec or the local poison control center. Transportation (Chemtrec): 1-800-424-9300 or +1-703-527-3887 (outside the U.S.)

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### 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

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#### Supplemental hazard information

None.

#### 2.3 Other hazards

##### Physical and Chemical Hazards:

The hazardous properties of the product are considered to be limited.

##### Human health:

Risk of local frostbite. Prolonged skin contact may cause redness and irritation.

The product does not contain any carcinogenic substances in amounts to be declared.

##### Environment:

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

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

The product contains: yeast.

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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

Listed substances: For information purposes only.

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### 4. FIRST-AID MEASURES

#### 4.1 Description of first aid measures

Inhalation: Move into fresh air and keep at rest.

Skin contact: Remove contaminated clothes and rinse skin thoroughly with water.

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 these instructions.

Ingestion: Not likely, due to the form of the product.

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

Risk of local frostbite. Prolonged skin contact may cause redness and irritation.

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

Symptomatic treatment.

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### 5. FIRE-FIGHTING MEASURES

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- 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.  
The explosion limits and the flash point are stated in section 9.
- 5.3 Advice for firefighters  
Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.
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## 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  
Avoid discharge into drains, water courses or onto the ground.
- 6.3 Methods and material for containment and cleaning up  
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.
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## 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 super frozen temperature conditions. For detailed information consult the PI sheet.  
Store in a dry place.  
  
Technical measures for safe storage: No special precautions.
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## 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

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Engineering measures: Provide adequate ventilation.

Respiratory equipment: Not relevant, due to the form of the product.

Risk of inhalation of dust or aerosols use suitable respirator. 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: Wear protective gloves against low temperatures.

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

Skin protection: No special precautions.

Hygiene measures: Wash hands after contact.

Environmental Exposure Controls: None.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance:	Frozen liquid
Color:	Light brown
Odor:	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.

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## 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.

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#### 10.5 Incompatible materials

None known.

#### 10.6 Hazardous decomposition products

None known.

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### 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

Inhalation: Not relevant, due to the form of the product.

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.

Skin contact: Risk of local frostbite. Prolonged contact may cause redness and irritation.

Eye contact: Risk of local frostbite.

Ingestion: Not likely, due to the form of the product.

Specific effects: None known, unless listed below.

The product does not contain any carcinogenic substances in amounts to be declared.

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### 12. ECOLOGICAL INFORMATION

#### 12.1 Ecotoxicity

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 bio-accumulable.

#### 12.4 Mobility in soil

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

#### 12.6 Other adverse effects

None known.

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### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

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

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#### 14. TRANSPORT INFORMATION

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

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 (DOT):

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.

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#### 15. REGULATORY INFORMATION

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

NFPA: Health: 1 Fire: 0 Reactivity: 0 Other: -

All chemicals are listed on TSCA.

Specific Provisions: State and local regulations may apply.

National regulation: OSHA Regulations (Standards - 29 CFR). Hazard Communication - 1910.1200.

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#### 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 : 3.

#### Wording of Hazard 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.