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

1.1 Product identifier
Product name: Viniflora® MERIT
Material No: 673398

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: 1-800-424-9300

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
The product is not classified, but must be labeled with the below phrases.

2.2 Label elements

Signal Word None.

Contains: None.

Hazard statements None Precautionary statements None
2.3 Other hazards

**Physical and Chemical Hazards:**
Small quantities: The hazardous properties of the product are considered to be limited.
Large quantities: 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. 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 considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Does not contain substances that must be indicated according to current regulations.
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: 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. Prolonged skin contact may cause redness and irritation.

4.3 Indication of any immediate medical attention and special treatment needed
Symptomatic treatment.

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
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.
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.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Avoid generation and spreading of dust. Avoid contact with eyes. Avoid inhalation 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
Granulate: Collect spillage with shovel, broom or the like.
Powder: Use a vacuum cleaner. If not possible, moisten dust with water before it is collected with shovel, broom or the like. 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.

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. 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 refrigerated temperature conditions. For detailed information consult the PI sheet. Store in a dry place. Protect against direct sunlight.

Technical measures for safe storage: Risk of dust explosion: Comply with the regulations on protection against dust explosions.

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: Total dust: 15 mg/m$^3$. Respirable dust: 5 mg/m$^3$.

8.2 Exposure controls
Engineering measures: Provide adequate ventilation. The risk of inhalation of dust must be minimized as much as possible.

Respiratory equipment: In case of inadequate ventilation: Use respiratory equipment with particle filter, type P1. 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties
9.2 Other information
No information available.

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 under normal conditions.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Inhalation: Dust may irritate respiratory system.

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: Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases. In rare cases: Pro-longed exposure to dust/aerosols containing microorganisms may cause allergic alveolitis.

The product does not contain any carcinogenic substances in amounts to be declared.
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 disperses in water and may spread in water systems.

12.6 Other adverse effects
None known.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Dispose of waste and residues in accordance with local authority requirements.
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.

15. REGULATORY INFORMATION

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

NFPA: Health: 1 Fire: Powder: 3 Reactivity: 0 Other: -
Granulate: 1

All chemicals are listed on TSCA.

Specific Provisions: State and local regulations may apply.
NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.
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

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.