







MSDS-P-12 Document ID: 20-June-2024 Philip Woodnutt

WHC Lab Ltd., Prospect Lower. Newcastle.

Co. Wicklow, Ireland, A63H0K8

1. PRODUCT AND COMPANY DETAILS **Product**

Name of Product: Voss (Ragnar) Chemical Name: Saccharomyces cerevisiae

Chemical Family: Kingdom Fungi, species Saccharomyces cerevisiae

Composition: Proteins, nitrogenous substances, sugars, organic acids, DNA, and fat. It has a high concentration of living, functional microorganisms.

Details of the supplier of the safety data sheet Name of Company: The Wicklow Hops Company t/a WHC Lab

Material Safety Data Sheet Voss (Ragnar) Dehydrated Yeast

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3. INGREDIENT COMPOSITION

4. FIRST AID PROCEDURES which are a figure and all

In case of an emergency please contact the local emergency services.

2. HAZARDS

Classification This product is not classified as dangerous according to CLP Regulation (EC) no 1272/2008.

may also release CO_2 if subjected to extremely high temperatures.

Due to cell metabolism, rehydrating Voss (Ragnar) Dehydrated Yeast may release CO2. It

Components

Inhalation:

68876-77-7 99% Not classified Saccharomyces cerevisiae Sorbitan monostearate 1338-41-6 1% Not classified (Emulsifier E491 - rehydration agent)

Cas Registry Number

Concentration

Classification (CLP)

Description of first aid procedures		
	Contact with Eyes:	If contact occurs, immediately rinse eyes thoroughly with water for a minimum of 15 minutes.
	Contact with Skin:	Use soap and water to wash. When exposed to yeast, some people may experience allergic reactions; in this instance, please contact a dermatologist or other medical provider.
	Ingestion:	Consuming too much yeast with a high concentration can result in digestive issues like diarrhea and cramping. In this instance, drink a lot of water.
	Inhalation:	In the event of CO ₂ release in a closed setting, which occurs when Voss (Ragnar) Dehydrated Yeast interacts with an

aqueous solution, remove the individual to fresh air right away and call the local emergency services Allergens* Voss (Ragnar) Dehydrated Yeast does not contain added allergens. *EU Regulation 1169/2011 (Food Information Regulations) (Annex II) Symptoms and effects Effects both immediate and delayed are further indicated in section 11. 5. FIRE FIGHTING MEASURES **Fire Suppression** Use the appropriate tools or media, such as water, foam, carbon dioxide, or dry powder, if involved in a fire.

There is a low risk of fire and explosion, under typical circumstances for handling, storing,

Voss (Ragnar) Dehydrated Yeast can produce CO₂ at extremely high temperatures.

Put on self-contained breathing apparatus and safety gear for firefighters, such as boots,

Environmental precautions

7. HANDLING AND STORAGE

Packaging Materials

Storage and Handling

outlined above.

Avoid inhaling combustion fumes.

Specific risks associated with the substance

gloves, and goggles etc.

and using the product.

Advice for fire fighters

6. ACCIDENTAL RELEASE CONTROLS Safety measures, protective gear, and emergency procedures

Wash with water using gloves, boots, and eye protection. If there is a CO_2 release and you're

another collection technique.

intended for contact with food), and FDA CFR 21 (174-179) (USA).

water. Voss (Ragnar) Dehydrated Yeast decomposes naturally.

in a closed space, use ventilation or breathing apparatus.

should be disposed of properly, given its high organic content.

Techniques and supplies for containment and cleanup In the event of a small or large spill or leak, Voss (Ragnar) Dehydrated Yeast is solid and shouldn't be handled as hazardous waste. It should be removed using a vacuum cleaner or

Rehydrated materials should be sent for sewage treatment after being heavily diluted with

Voss (Ragnar) Dehydrated Yeast is not considered to be environmentally hazardous, but it

Voss (Ragnar) Dehydrated Yeast is available in 500g vacuum-packed silver foil packs. This material complies with relevant food-contact legislation, including, EU Regulation 1935/2004 (materials intended for contact with food), EU Regulation 1245/2020 (plastic materials intended for contact with food)), EU Regulation 2023/2006 (GMP for materials

Storage Conditions: Store at cool to ambient temperatures (ideally 5°C to 15°C), dry, and

Shelf life: 3 years from date of production, if vacuum seal is not broken, and if stored as

Handling: Once opened, re-seal to keep out air and water. For best results, store re-sealed

packs in a refrigerator (0°C to 10°C) and use promptly. Please note expiry date on packs prior to opening.

To reduce toxicological risks:

8. EXPOSURE CONTROLS

thoroughly with cleaning supplies after.

handled roughly as it may rise up dust.

Hazardous thermal (de)composition products: CO₂

protection should adhere to the applicable EN standard.

well-ventilated environment.

Note: When added to water or a water solution, Voss (Ragnar) Dehydrated Yeast releases CO₂, especially on substrates high in sugars or starch. Ensure adequate ventilation to keep levels below advised exposure limits.

Precautions To prevent fires and explosions: Voss (Ragnar) Dehydrated Yeast has a low fire and explosion risk, avoid dusting workplaces while handling and storing it. For safe manipulation: Use air-tight containers. Avoid the container leaking. Control spills and residues by safely destroying them (section 6).

Avoid eating, drinking or smoking while performing the procedure, and wash your hands

When added to water or a water solution, Voss (Ragnar) Dehydrated Yeast releases CO₂, especially on substrates high in sugars or starch; ensure adequate ventilation to keep levels

is no need for specialized respiratory protection unless access to tanks where fermentation

Staff members must wear dust protective masks if Voss (Ragnar) Dehydrated Yeast is

Before using this product, a thorough risk assessment should be done to determine the best personal protective equipment for the local environment. Equipment for personal

Controlling the CO₂ levels should be possible with just adequate general ventilation. There

Odor

Color

Solubility

Moisture

Dry matter

Wild Yeasts

Moulds

Coliforms

Escherichia coli

Salmonella spp

Respiratory:

Skin irritation:

Sensitization:

GMO

materials.

14. TRANSPORT

Staphylococcus aureus

Listeria monocytogenes

Total Yeast Plate Count

Direct Live Cell Count

Lactic Acid Bacteria

Acetic Acid Bacteria

Conditions

9. PHYSICAL, CHEMICAL AND MICROBIOLOGICAL PROPERTIES Unit of Measure **Typical Value**

%

%

Cfu/g

Cells/g

Cfu/g

Cfu/g

Cfu/g

Cfu/g

Cfu/g

Cfu/g

Cfu/g

Cfu/g

Cfu/g

below advised exposure limits. If the room isn't ventilated after rehydrating, open the door about two minutes beforehand, and wear the oxygen detector.

is occurring is necessary.

Parameter **Specification Value** Fine granules **Appearance** (typically 3mm particle size) Powder flow characteristics Free flowing granules

Weak characteristic yeast

smell

Light brown/beige

Miscible in water & ethanol

solutions

95.4

4 to 6 1.3×10^{10}

 1.9×10^{10}

< 10

< 10

< 10

< 10

< 10

Absent in 1 g

Absent in 1 g

Absent in 25 g

Absent in 25 g

Typical

Light

brown/beige

> 92

< 8

>1010

 $> 1.9 \times 10^{10}$

< 103

< 104

< 105

< 102

< 102

Absent in 1 g

Absent in 1 g

Absent in 25 g

Absent in 25 g

Yeast itself is not explosive Explosive properties: 10. STABILITY/REACTIVITY **Conditions to avoid** Lack of stirring following rehydration. Dust is produced by vigorously shaking Voss (Ragnar) Dehydrated Yeast. High-temperature storage. **Chemical stability** Stable when stored according to recommendations. Chemical stability of this material is guaranteed by the storage and handling conditions. 11. TOXICOLOGICAL INFORMATION Information on toxicological effects Toxicity: Even at high doses, there is no acute toxicity. Large doses may irritate the digestive tract when consumed. Oral:

handling, the risk is low.

Voss (Ragnar) Dehydrated Yeast does not contain genetically modified organisms or

This product is not dangerous to the environment with respect to mobility, persistency and

Possible allergic sensitization.

low.

For typical industrial handling, the risk is low.

May irritate the respiratory tract. For typical industrial

May irritate skin. For typical industrial handling, the risk is

degradability, bio-accumulative potential, aquatic toxicity, and other data relating to

12. ECOLOGICAL INFORMATION

13. DISPOSAL No special disposal method required, except to be in accordance with all local, state, provincial, and federal regulations when disposing of materials.

The information presented here is based on our current understanding. It describes the product in terms of the necessary safety precautions. It does not imply that the product's qualities are guaranteed.

EAN: 633710398244

VAT no. IE3495683DH

Sea: **Applicable** Road/Rail: **Applicable** Air: **Applicable**

If you have any questions or concerns about our product please contact us at lab@whclab.com

