







1. PRODUCT AND COMPANY DETAILS **Product**

Name of Product: Hornindal (Bjorn) 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 Address: WHC Lab, Prospect Lower, Newcastle, Co. Wicklow, Ireland, A63H0K8 **Emergency Contact Numbers**

Material Safety Data Sheet Hornindal (Bjorn) Dehydrated Yeast

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Accounts - Judith Moss: +353 (0)86 896 1901

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

3. INGREDIENT COMPOSITION

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2. HAZARDS Classification

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

Components

may also release CO_2 if subjected to extremely high temperatures.

Due to cell metabolism, rehydrating Hornindal (Bjorn) Dehydrated Yeast may release CO2. It

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)

4. FIRST AID PROCEDURES		
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.	
	In the event of CO ₂ release in a closed setting, which occurs	

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. Specific risks associated with the substance

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

Avoid inhaling combustion fumes.

and using the product.

gloves, and goggles etc.

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

Hornindal (Bjorn) Dehydrated Yeast is not considered to be environmentally hazardous, but

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

Hornindal (Bjorn) Dehydrated Yeast can produce CO₂ at extremely high temperatures.

another collection technique.

Techniques and supplies for containment and cleanup In the event of a small or large spill or leak, Hornindal (Bjorn) 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

Hornindal (Bjorn) Dehydrated Yeast is available in 500g vacuum-packed silver foil packs. This material complies with relevant food-contact legislation, including, EU Regulation

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

ventilation to keep levels below advised exposure limits.

in a closed space, use ventilation or breathing apparatus.

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

water. Hornindal (Bjorn) Dehydrated Yeast decomposes naturally.

intended for contact with food), and FDA CFR 21 (174-179) (USA). Storage and Handling Storage Conditions: Store at cool to ambient temperatures (ideally 5°C to 15°C), dry, and

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

To prevent fires and explosions: Hornindal (Bjorn) Dehydrated Yeast has a low fire and explosion risk, avoid dusting workplaces while handling and storing it.

8. EXPOSURE CONTROLS **Conditions** When added to water or a water solution, Hornindal (Bjorn) Dehydrated Yeast releases CO₂,

especially on substrates high in sugars or starch; ensure adequate ventilation to keep levels

If the room isn't ventilated after rehydrating, open the door about two minutes beforehand,

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

is no need for specialized respiratory protection unless access to tanks where fermentation is occurring is necessary. Staff members must wear dust protective masks if Hornindal (Bjorn) Dehydrated Yeast is handled roughly as it may rise up dust.

Solubility

Moisture

Dry matter

Wild Yeasts

Moulds

Coliforms

Escherichia coli

Salmonella spp

Staphylococcus aureus

Listeria monocytogenes Explosive properties:

10. STABILITY/REACTIVITY

High-temperature storage.

Lack of stirring following rehydration.

Conditions to avoid

Total Yeast Plate Count

Direct Live Cell Count

Lactic Acid Bacteria

Acetic Acid Bacteria

Precautions

For safe manipulation:

destroying them (section 6).

To reduce toxicological risks:

below advised exposure limits.

and wear the oxygen detector.

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

9. PHYSICAL, CHEMICAL AND MICROBIOLOGICAL PROPERTIES

when Hornindal (Bjorn) Dehydrated Yeast interacts with an Inhalation: aqueous solution, remove the individual to fresh air right away and call the local emergency services Allergens* Hornindal (Bjorn) 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.

Environmental precautions

7. HANDLING AND STORAGE

Packaging Materials

well-ventilated environment. Shelf life: 3 years from date of production, if vacuum seal is not broken, and if stored as outlined above.

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

Note: When added to water or a water solution, Hornindal (Bjorn) Dehydrated Yeast releases CO₂, especially on substrates high in sugars or starch. Ensure adequate

Avoid eating, drinking or smoking while performing the procedure, and wash your hands thoroughly with cleaning supplies after.

Use air-tight containers. Avoid the container leaking. Control spills and residues by safely

Hazardous thermal (de)composition products: CO₂ 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 protection should adhere to the applicable EN standard.

Weak characteristic yeast Odor Typical smell Light Color Light brown/beige brown/beige Miscible in water & ethanol

%

%

Cfu/g

Cells/g

Cfu/g

Cfu/g

Cfu/g

Cfu/g

Cfu/g

Cfu/g

Cfu/g

Cfu/g

Cfu/g

Dust is produced by vigorously shaking Hornindal (Bjorn) Dehydrated Yeast.

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

Yeast itself is not explosive

> 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

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: For typical industrial handling, the risk is low. May irritate the respiratory tract. For typical industrial Respiratory: handling, the risk is low. May irritate skin. For typical industrial handling, the risk is Skin irritation: low. Sensitization: Possible allergic sensitization. 12. ECOLOGICAL INFORMATION **GMO** Hornindal (Bjorn) Dehydrated Yeast does not contain genetically modified organisms or materials. This product is not dangerous to the environment with respect to mobility, persistency and degradability, bio-accumulative potential, aquatic toxicity, and other data relating to ecotoxicity. 13. DISPOSAL

Road/Rail: Air:

14. TRANSPORT

Sea:

provincial, and federal regulations when disposing of materials.

Applicable

Applicable

No special disposal method required, except to be in accordance with all local, state,

16. OTHER INFORMATION
The information presented here is based on our current understanding. It describes the product in terms of the necessary safety precautions.

Applicable 15. REGULATORY INFORMATION This product is used in the food industry and contains no health-hazardous substances.

It does not imply that the product's qualities are guaranteed.

Prepared by: The Ouality Department at WHC Lab

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