





Co. Wicklow, Ireland, A63H0K8 MSDS-P-19 Document ID: Revision 4 21-June-2024 Approved By: Philip Woodnutt

WHC Lab Ltd., Prospect Lower. Newcastle.

Name of Product: Prometheus

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

Name of Company: The Wicklow Hops Company t/a WHC Lab Address: WHC Lab, Prospect Lower, Newcastle, Co. Wicklow, Ireland, A63H0K8

Emergency Contact Numbers

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

2. HAZARDS

also release CO₂ if subjected to extremely high temperatures.

Sorbitan monostearate

3. INGREDIENT COMPOSITION Components Cas Registry Number Concentration Classification (CLP) Saccharomyces cerevisiae 68876-77-7 99% Not classified

1338-41-6

1%

4. FIRST AID PROCEDURES **Description of first aid procedures** If contact occurs, immediately rinse eyes thoroughly with Contact with Eyes: water for a minimum of 15 minutes. Use soap and water to wash. When exposed to yeast, some Contact with Skin: people may experience allergic reactions; in this instance,

Ingestion: result in digestive issues like diarrhea and cramping. In this instance, drink a lot of water. In the event of CO₂ release in a closed setting, which occurs when Prometheus Dehydrated Yeast interacts with an Inhalation: aqueous solution, remove the individual to fresh air right away and call the local emergency services Allergens* Prometheus 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

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

Avoid inhaling combustion fumes.

Specific risks associated with the substance

gloves, and goggles etc.

and using the product.

involved in a fire.

6. ACCIDENTAL RELEASE CONTROLS

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

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

Prometheus Dehydrated Yeast can produce CO2 at extremely high temperatures.

Safety measures, protective gear, and emergency procedures

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

packs in a refrigerator (0°C to 10°C) and use promptly.

in a closed space, use ventilation or breathing apparatus.

Environmental precautions Prometheus Dehydrated Yeast is not considered to be environmentally hazardous, but it should be disposed of properly, given its high organic content. Techniques and supplies for containment and cleanup

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

In the event of a small or large spill or leak, Prometheus Dehydrated Yeast is solid and shouldn't be handled as hazardous waste. It should be removed using a vacuum cleaner or

water. Prometheus Dehydrated Yeast decomposes naturally.

another collection technique.

7. HANDLING AND STORAGE

Packaging Materials

Storage and Handling

outlined above.

Prometheus 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 well-ventilated environment. 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

Please note expiry date on packs prior to opening. Note: When added to water or a water solution, Prometheus Dehydrated Yeast releases

CO₂, especially on substrates high in sugars or starch. Ensure adequate ventilation to keep levels below advised exposure limits.

Precautions

Conditions

Appearance

Odor

Color

To prevent fires and explosions: Prometheus 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).

handled roughly as it may rise up dust. Hazardous thermal (de)composition products: CO₂ Before using this product, a thorough risk assessment should be done to determine the

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

protection should adhere to the applicable EN standard.

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

8. EXPOSURE CONTROLS

below advised exposure limits.

and wear the oxvaen detector.

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 Prometheus Dehydrated Yeast is

best personal protective equipment for the local environment. Equipment for personal

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

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

Miscible in water & ethanol Solubility solutions % > 92 Dry matter 95.4 < 8 Moisture % 4 to 6 >1010 1.3×10^{10} Cfu/g

Cells/g

Cfu/g

Cfu/g

Cfu/g

Cfu/g

Cfu/g

Cfu/g

Cfu/g

Dust is produced by vigorously shaking Prometheus Dehydrated Yeast.

Fine granules

(typically 3mm particle size)

Free flowing granules Weak characteristic yeast

smell

Light brown/beige

 1.9×10^{10}

< 10 < 10

< 10

< 10 < 10

Absent in 1 g

Absent in 1 g

Typical

Light

brown/beige

 $> 1.9 \times 10^{10}$

< 103

< 104

< 105

< 102

< 102

Absent in 1 g

Absent in 1 g

Total Yeast Plate Count Direct Live Cell Count

Lactic Acid Bacteria

Acetic Acid Bacteria

Wild Yeasts

Moulds

Coliforms

Escherichia coli

Staphylococcus aureus

10. STABILITY/REACTIVITY

High-temperature storage.

Lack of stirring following rehydration.

11. TOXICOLOGICAL INFORMATION Information on toxicological effects

12. ECOLOGICAL INFORMATION

15. REGULATORY INFORMATION

16. OTHER INFORMATION

www.whclab.com

Conditions to avoid

Chemical stability

Toxicity:

Sensitization:

Oral:

GMO

materials.

14. TRANSPORT

Sea:

Powder flow characteristics

Salmonella spp Cfu/g Absent in 25 g Absent in 25 g Cfu/g Absent in 25 g Absent in 25 g Listeria monocytogenes Yeast itself is not explosive Explosive properties:

Stable when stored according to recommendations. Chemical stability of this material is

Possible allergic sensitization.

Prometheus Dehydrated Yeast does not contain genetically modified organisms or

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

Even at high doses, there is no acute toxicity.

For typical industrial handling, the risk is low.

Large doses may irritate the digestive tract when consumed.

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.

guaranteed by the storage and handling conditions.

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

provincial, and federal regulations when disposing of materials.

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

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

VAT no. IE3495683DH

Applicable

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.

If you have any questions or concerns about our product please contact us at lab@whclab.com Prepared by: The Ouality

SKU: DRI-PROM · DRI-PROM-20 · DRI-PROM-10 EAN: 633710398435 · 633710398442

Department at WHC Lab Rev 4 Company Reg No. 594386

(Emulsifier E491 - rehydration agent)

please contact a dermatologist or other medical provider. Consuming too much yeast with a high concentration can **Fire Suppression** Use the appropriate tools or media, such as water, foam, carbon dioxide, or dry powder, if

Classification

This product is not classified as dangerous according to CLP Regulation (EC) no 1272/2008. **Other Hazards** Due to cell metabolism, rehydrating Prometheus Dehydrated Yeast may release CO2. It may

Details of the supplier of the safety data sheet Director - Tony O'Kane: +353 (0)87 948 3590

Chemical Name: Saccharomyces cerevisiae Chemical Family: Kingdom Fungi, species Saccharomyces cerevisiae

1. PRODUCT AND COMPANY DETAILS **Product**

Not classified