





Co. Wicklow, Ireland, A63H0K8 MSDS-P-17 Document ID: 21-June-2024 Philip Woodnutt

WHC Lab Ltd., Prospect Lower. Newcastle.

## **Hades Dehydrated Yeast** 1. PRODUCT AND COMPANY DETAILS

**Material Safety Data Sheet** 

Name of Product: Hades Chemical Name: Saccharomyces cerevisiae

**Product** 

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** Director - Tony O'Kane: +353 (0)87 948 3590

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3. INGREDIENT COMPOSITION

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. **Other Hazards** 

Due to cell metabolism, rehydrating Hades Dehydrated Yeast may release CO<sub>2</sub>. It may also release CO<sub>2</sub> if subjected to extremely high temperatures.

**Components** 

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 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   |

e diarrhea and cramping. in tnis instance, drink a lot of water. In the event of CO<sub>2</sub> release in a closed setting, which occurs when Hades Dehydrated Yeast interacts with an aqueous Inhalation: solution, remove the individual to fresh air right away and call the local emergency services Allergens\* Hades 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

Use the appropriate tools or media, such as water, foam, carbon dioxide, or dry powder, if

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

Hades Dehydrated Yeast can produce CO<sub>2</sub> at extremely high temperatures.

## Advice for fire fighters

Avoid inhaling combustion fumes.

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

and using the product.

gloves, and goggles etc.

collection technique.

**Packaging Materials** 

**Fire Suppression** 

involved in a fire.

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

**Environmental precautions** Hades Dehydrated Yeast is not considered to be environmentally hazardous, but it should be disposed of properly, given its high organic content.

in a closed space, use ventilation or breathing apparatus.

Specific risks associated with the substance

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

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

Hades 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.

avoid dusting workplaces while handling and storing it.

water. Hades Dehydrated Yeast decomposes naturally.

7. HANDLING AND STORAGE

materials intended for contact with food)), EU Regulation 2023/2006 (GMP for materials 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

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

especially on substrates high in sugars or starch. Ensure adequate ventilation to keep

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, Hades Dehydrated Yeast releases CO<sub>2</sub>,

For safe manipulation:

advised exposure limits.

is occurring is necessary.

and wear the oxygen detector.

To reduce toxicological risks:

thoroughly with cleaning supplies after.

levels below advised exposure limits.

well-ventilated environment.

outlined above.

**Precautions** 

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

To prevent fires and explosions: Hades Dehydrated Yeast has a low fire and explosion risk,

8. EXPOSURE CONTROLS **Conditions** When added to water or a water solution, Hades Dehydrated Yeast releases CO<sub>2</sub>, especially

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

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

9. PHYSICAL, CHEMICAL AND MICROBIOLOGICAL PROPERTIES

**Parameter** 

Odor

Color

Solubility

Dry matter

Wild Yeasts

Moulds

Toxicity:

Respiratory:

Skin irritation:

Sensitization:

Oral:

**GMO** 

ecotoxicity.

**14. TRANSPORT** 

Coliforms

Escherichia coli

Salmonella spp

Staphylococcus aureus

Listeria monocytogenes

Explosive properties:

**Appearance** 

roughly as it may rise up dust. Hazardous thermal (de)composition products: CO<sub>2</sub> 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.

**Typical Value** 

Fine granules

(typically 3mm particle size)

Free flowing granules Weak characteristic yeast

smell

Light brown/beige

Miscible in water & ethanol

solutions

95.4

4 to 6

 $1.3 \times 10^{10}$ 

 $1.9 \times 10^{10}$ 

< 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

**Specification Value** 

Typical

Light

brown/beige

> 92

< 8

>1010

> 1.9 x 10<sup>10</sup>

< 103

< 104

< 105

< 102

< 102

Absent in 1 g

Absent in 1 g

Absent in 25 g

Absent in 25 g

Unit of Measure

%

%

Cfu/g

Cells/g

Cfu/g

Cfu/g

Cfu/g

Cfu/g

Cfu/g

Cfu/g

Cfu/g

Cfu/g

Cfu/g

Staff members must wear dust protective masks if Hades Dehydrated Yeast is handled

Moisture Total Yeast Plate Count Direct Live Cell Count

Lactic Acid Bacteria

Acetic Acid Bacteria

Powder flow characteristics

10. STABILITY/REACTIVITY **Conditions to avoid** Lack of stirring following rehydration. Dust is produced by vigorously shaking Hades 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

handling, the risk is low.

Possible allergic sensitization.

Hades 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

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.

May irritate the respiratory tract. For typical industrial

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

Large doses may irritate the digestive tract when consumed.

13. DISPOSAL

12. ECOLOGICAL INFORMATION

Information on toxicological effects

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

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.

16. OTHER INFORMATION

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

provincial, and federal regulations when disposing of materials.

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

SKU: DRI-HADES · DRI-HADES-20 · DRI-HADES-10

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