





Revision 2 27-May-2024 Approved By: Philip Woodnutt

1. PRODUCT AND COMPANY DETAILS **Product**

Name of Product: High Voltage

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: WHC Lab Ltd.

Material Safety Data Sheet High Voltage Dehydrated Yeast

Address: WHC Lab, Prospect Lower, Newcastle, Co. Wicklow, Ireland, A63 H0K8 **Emergency Contact Numbers**

Director - Tony O'Kane: +353 (0)87 948 3590 Quality & Sales - Philip Woodnutt: +353 (0)89 406 8622

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

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

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

2. HAZARDS

Due to cell metabolism, rehydrating High Voltage Dehydrated Yeast may release CO2. It

may also release CO_2 if subjected to extremely high temperatures.

Cas Registry Number Concentration Classification (CLP) Saccharomyces cerevisiae 68876-77-7 99% Not classified Sorbitan monostearate 1338-41-6 1% Not classified (Emulsifier E491 - rehydration agent)

	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

when High Voltage Dehydrated Yeast interacts with an

away and call the local emergency services.

aqueous solution, remove the individual to fresh air right

5. FIRE FIGHTING MEASURES **Fire Suppression** Use the appropriate tools or media, such as water, foam, carbon dioxide, or dry powder, if

Specific risks associated with the substance

6. ACCIDENTAL RELEASE CONTROLS

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

Safety measures, protective gear, and emergency procedures Wash with water using gloves, boots, and eye protection. If there is a CO₂ release and you're in a closed space, use ventilation or breathing apparatus.

water. High Voltage Dehydrated Yeast decomposes naturally.

Environmental precautions

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, High Voltage Dehydrated Yeast is solid and

Packaging Materials

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

shouldn't be handled as hazardous waste. It should be removed using a vacuum cleaner or

another collection technique.

7. HANDLING AND STORAGE

High Voltage Dehydrated Yeast is available in 500g vacuum-packed silver foil packs.

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

Storage and Handling 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

CO₂, especially on substrates high in sugars or starch. Ensure adequate ventilation to keep

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

levels below advised exposure limits.

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

To prevent fires and explosions: High Voltage# Dehydrated Yeast has a low fire and

8. EXPOSURE CONTROLS **Conditions**

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

destroying them (section 6). To reduce toxicological risks: Avoid eating, drinking or smoking while performing the procedure, and wash your hands

below advised exposure limits.

is occurring is necessary.

thoroughly with cleaning supplies after.

and wear the oxygen detector. 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

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

Powder flow characteristics Free flowing granules Weak characteristic yeast Odor Typical smell Light

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)

Light brown/beige

Miscible in water & ethanol

solutions

95.4

4 to 6

 1.3×10^{10}

1.9 x 10¹⁰

< 10

< 10

Absent in 25 g

Absent in 25 g Yeast itself is not explosive

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

Specification Value

brown/beige

> 92

< 8 >1010

> 1.9 x 10¹⁰

 $< 10^{3}$

< 104

Absent in 25 g

Absent in 25 g

9. PHYSICAL, CHEMICAL AND MICROBIOLOGICAL PROPERTIES

Unit of Measure

%

%

Cfu/g

Cells/g

Cfu/g

Cfu/g

Cfu/g

Cfu/g

Dust is produced by vigorously shaking High Voltage Dehydrated Yeast.

Wild Yeasts Cfu/g < 10 < 105 Moulds Cfu/g < 10 < 102 Coliforms Cfu/g < 10 < 102 Escherichia coli Absent in 1 g Cfu/g Absent in 1 g Staphylococcus aureus Cfu/g Absent in 1 g Absent in 1 g

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

handling, the risk is low.

Possible allergic sensitization.

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

guaranteed by the storage and handling conditions.

materials.	hydrated Yeast does not contain genetically modified organisms or
· '	not dangerous to the environment with respect to mobility, persistency and o-accumulative potential, aquatic toxicity, and other data relating to
13. DISPOSAL	
No special dispo	sal method required, except to be in accordance with all local, state, ederal regulations when disposing of materials.

12. ECOLOGICAL INFORMATION

14. TRANSPORT

Applicable

Applicable

Applicable

The information presented here is based on our current understanding.
16. OTHER INFORMATION
I his product is used in the food industry and contains no nealth-hazardous substances

It describes the product in terms of the necessary safety precautions.

3. INGREDIENT COMPOSITION Components

4 FIRST AID PROCEDURES

Inhalation: Allergens* High Voltage 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.

There is a low risk of fire and explosion, under typical circumstances for handling, storing, and using the product. High Voltage Dehydrated Yeast can produce CO₂ at extremely high temperatures. Avoid inhaling combustion fumes.

involved in a fire.

gloves, and goggles etc.

Advice for fire fighters

High Voltage Dehydrated Yeast is not considered to be environmentally hazardous, but it

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

outlined above.

explosion risk, avoid dusting workplaces while handling and storing it.

Precautions

Staff members must wear dust protective masks if High Voltage Dehydrated Yeast is handled roughly as it may rise up dust. Hazardous thermal (de)composition products: CO₂

Parameter

Color

Solubility

Dry matter Moisture

Total Yeast Plate Count

Direct Live Cell Count

Lactic Acid Bacteria

Acetic Acid Bacteria

High-temperature storage.

11. TOXICOLOGICAL INFORMATION Information on toxicological effects

Chemical stability

Respiratory:

Skin irritation:

Sensitization:

Appearance

Salmonella spp Listeria monocytogenes Explosive properties: 10. STABILITY/REACTIVITY **Conditions to avoid** Lack of stirring following rehydration.

GMO

Air: 15. REGULATORY INFORMATION

Sea:

Road/Rail:

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

SKU: DRI-H-VOLT

www.whclab.com

EAN: 633710398664 Company Reg No. 594386 VAT no. IE3495683DH