

Material Safety Data Sheet

WHC ALDC Enzyme

1. PRODUCT AND COMPANY DETAILS

Product

Name of Product: WHC ALDC Enzyme
UFI: EKA0-40ED-W00E-6PKT

Relevant uses:

Food additive (for professional and industrial use)

Details of the supplier of the safety data sheet

Name of Company: WHC Lab Ltd.

Address: WHC Lab, Prospect Lower, Newcastle, Co. Wicklow, Ireland, A63 H0K8

Emergency Contact Numbers

Managing Director: Tony O'Kane: +353 87 948 3590

Technical Director: Philip Woodnutt: +353 89 406 8622

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Sales Director: Pete Garraway: +44 779 658 5387

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

2. HAZARDS

Classification (CLP Regulation EC 1272/2008):

Respiratory sensitizer (H334): May cause allergy or asthma symptoms or breathing difficulties if inhaled.



Label elements:

- Danger
- Hazard statements: H334
- Precautionary statements: P101, P102, P261, P284, P304+P340, P342+P311, P501

Other hazards:

- Does not meet PBT/vPvB criteria
- No endocrine-disrupting properties

3. INGREDIENT COMPOSITION

Chemical characterization:

Mixture of substances

Classification: Resp. Sens. 1 (H334)



Components	Concentration	CAS Number
Decarboxylase, Acetolactate	25%	9025-02-9
GLYCEROL	73.5%	56-81-5
Potassium Sorbate	1.5%	24634-61-5

4. FIRST AID PROCEDURES

Description of first aid procedures	
Contact with Eyes:	Rinse opened eye for at least 15 minutes under lukewarm running water; do not rub eye
Contact with Skin:	Wash thoroughly with water and neutral soap; seek medical advice if skin changes occur
Ingestion:	Seek immediate medical assistance, show Safety Data Sheet
Inhalation:	Remove affected person to fresh air, keep comfortable, seek medical attention if symptoms persist or in serious cases

5. FIRE FIGHTING MEASURES

Fire Suppression
Non-flammable; use polyvalent powder extinguishers.
Specific risks associated with the substance
Combustion can produce highly toxic reactive sub-products.
Advice for fire fighters
Use full protective clothing and Self Contained Breathing Apparatus; cool containers; avoid spillage into water.

6. ACCIDENTAL RELEASE CONTROLS

Safety measures, protective gear, and emergency procedures
Isolate leaks, use personal protective equipment, and evacuate non-protected persons.
Environmental precautions
Keep away from drains, water sources.
Techniques and supplies for containment and cleanup
Use sand or inert absorbent, avoid combustible materials, contain in appropriate containers, manage waste per regulations.
Water spills
Contain with barriers; treat waste accordingly.

7. HANDLING AND STORAGE

Packaging Materials
WHC ALDC Enzyme is available in 1kg and 5kg containers
Storage and Handling
Storage Conditions: It is recommended to keep product in its original unopened packaging in ambient conditions (5°C to 30°C or 41°F to 86°F) to maintain maximum activity. Avoid freezing the product and ensure containers are sealed when not in use. Store in a cool place, away from direct sunlight, to preserve its effectiveness. Avoid heat, radiation, static, contact with food, strong acids, and alkalis. Once opened, aim to use it within six months.
Shelf life: As stated on the pack.

Handling: Follow safety legislations, maintain order and cleanliness, prevent electrostatic charges. Use slow transfer, hygiene measures, and absorbent materials nearby.

Please note the expiry date on the drum prior to opening.

8. EXPOSURE CONTROLS

Conditions	
Respiratory protection	Filter mask for gases/vapours.
Emergency measures	Emergency shower, eyewash stations.
Protection of hands	Protective gloves (CE III recommended).
Protection of body	Work clothing, anti-slip shoes.
Eye protection	Panoramic splash-proof glasses.
Environmental controls	Prevent spillage; V.O.C.: 0%

9. PHYSICAL, CHEMICAL AND MICROBIOLOGICAL PROPERTIES

Parameter	Typical Value
Form	Liquid
Color	Brown
pH	3,5 - 5
Boiling point	Not relevant (non-flammable)
Flash point	> 60°C or > 140°F (non-flammable)
Density at 20°C (68°F)	1136.8 kg/m ³
Relative density	1.137
Other	No relevant information on volatility, solubility, or flammability due to product nature.

10. STABILITY/REACTIVITY

Conditions to avoid
Shock, friction, air, heat, sunlight, humidity.
Reactivity
Stable under storage conditions.
Chemical stability
Chemically stable.
Incompatible materials
Strong acids, alkalis, oxidizers, combustibles.
Hazardous decomposition products
CO ₂ , CO, organic compounds during decomposition or combustion.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects	
General	No specific toxicological data for the product.
Inhalation	May cause allergic or asthma symptoms if inhaled; prolonged exposure can result in respiratory hypersensitivity.
Acute toxicity	Not classified as hazardous for ingestion, inhalation, or skin/eye contact.
Reproductive and carcinogenic effects	Not classified as carcinogenic or mutagenic.

Sensitization	Respiratory hypersensitivity possible.
Other info	Does not meet PBT/vPvB criteria; no endocrine disruption.

12. ECOLOGICAL INFORMATION

Toxicity

Toxicity: No data available; not classified as hazardous.

Persistence: Not relevant; no bioaccumulation or mobility data.

Endocrine disruption: Does not meet criteria.

Other effects: Not described.

13. DISPOSAL

Waste treatment methods:

Recommendation: Non-hazardous waste, disposal via authorized waste services.

Uncleaned packagings:

Same as the product if in contact; otherwise, non-hazardous.

Recommendation: Disposal must be made according to official regulations.

Regulations: Comply with directives 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014.

14. TRANSPORT

Not regulated for transport (ADR/RID, IMDG, IATA)

15. REGULATORY INFORMATION

Regulatory Information

- No specific restrictions or authorizations.
- Not listed in Annex XIV REACH or as a persistent organic pollutant.
- Sector-specific legislation may apply.
- No chemical safety assessment conducted by the supplier.

16. OTHER INFORMATION

***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