

# Safety Data Sheet: Zearalenol-alpha

## Section 1. Identification of the substance/mixture and of the Company

Product identifiers			
Product name	Zearalenol alpha	Formula	C <sub>16</sub> H <sub>24</sub> O <sub>5</sub>
Product Code	ZLa	RTECS	DM2560000
CAS #	36455-72-8	Molecular weight	320.4
EC Number #	828-728-1		
		Version	18-10-2022

Intended uses of the substance or mixture and uses advised against	
Intended use	Uses advised against:
<b>Only for Research and/or Development</b>	Not for drug, Not to be used in humans or animals. Not food additive

Details of the supplier of the safety data sheet		Emergency Telephone number
FERMENTEK Ltd 4 Yatziv street, POB 47120 Jerusalem 97800, Israel	Tel: +972 2 5853953 Fax: +972 2 5853943 eMail: fermentek@fermentek.com Website: www.fermentek.com	For chemical emergency spill, leak, fire, exposure, or accident calls CHEMTREC day or night: Within USA and Canada: 1-800-424-9300. Outside USA and Canada: +1 703-527-3887

This company is the manufacturer of the product, and the supplier of the safety data sheet

**Reach:** A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

## Section 2. Hazards identification

### 2.1 Classification of the substance or mixture

#### GHS Hazards Classification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)

Acute Toxicity, Oral	(Category 4)
Skin Irritation	(Category 2)
Serious Eye Damage	(Category 1)
Carcinogenicity	(Category 1B)
Reproductive Toxicity	(Category 2)
STOT RE	(Category 1)


#### Classification of the substance or mixture

##### GHS Classification:

##### EU Classification (According to EU Regulation 67/548/EEC)

Irritating to eyes, respiratory system and skin.  
 Possible risk of harm to the unborn child.  
 Possible risk of impaired fertility.  
 May cause heritable genetic damage.

## GHS Label elements, including precautionary statements

Signal word: { <i>Danger</i> }	Pictogram: 
H302	Harmful if swallowed.
Precautionary statements	
P301/P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P201	Obtain special instructions before use
P280	Wear protective gloves/protective clothing/eye protection/face protection
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P302/P352	IF ON SKIN: Wash with plenty of soap and water
P305/P351/P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

## Section 3. Composition/information on ingredients

<b>Substance</b>	
Substance name:	<i>Zearalenol alpha</i>
	CAS Registry #:36455-72-8      EC#: 828-728-1
	Molecular Formula: $C_{16}H_{24}O_5$
	Concentration: ≤ 100%
<b>Mixture</b>	Not mixture.

## Section 4. First Aid Measures

### Description of First Aid Measures

<b>General advice:</b>	If medical attention is required, show this safety data sheet to the doctor.
<b>Eye contact:</b>	Wash with plenty of water.
<b>Skin Contact:</b>	Wash off with soap and plenty of water.
<b>Ingestion:</b>	Do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Drink plenty of water. Clean mouth with water and drink afterwards plenty of water. Call a physician
<b>Inhalation:</b>	Medical attention may be required. If symptoms persist, call a physician
<b>Self-protection of the first aider:</b>	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.
<b>Note to physicians</b>	Treat symptomatically

## Section 5. Fire-fighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Unsuitable extinguishing media</b>	None
<b>Hazardous combustion products</b>	Carbon oxides, Nitrogen oxides.
<b>Advice for firefighters</b>	Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Personal precautions	Use personal protective equipment as required. Keep people away from and upwind of spill/leak.
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Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
Methods for containment:	Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.
Methods for cleaning up	Cover liquid spill with sand, earth or other non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, and vermiculite). Cover powder spill with plastic sheet or tarp to minimize spreading. Sweep up and shovel into suitable containers for disposal.

## Section 7. Handling and storage

### Precautions for safe handling

Advice on safe handling	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.
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### Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Store at -20 °C, Protect from sunlight. Protect from moisture
Incompatible materials	None known based on information available.

## Section 8. Exposure Controls/Personal Protection

	No occupational exposure limits are listed for this material.
OSHA Permissible Exposure Limits	No Data Available
NIOSH Recommended Exposure Limits	No Data Available
ACGIH Threshold Limit Values	No Data Available

### Exposure controls

*This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.*

### Appropriate engineering controls

Engineering Controls	Showers, Eyewash stations, Ventilation systems
	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Use fumehood for routine work.
Personal protective equipment	The employer/end user, prior to use of this product should perform all recommendations below are advisory in nature and a risk assessment. The type of protective equipment must be selected based on the amount and concentration of the dangerous material being used in the workplace.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice
[PPE=Personal Protection Equipment]	
<b>PPE</b> Eye/face protection	Wear safety glasses with side shields (or goggles).
<b>PPE</b> Skin and Body Protection	Wear protective gloves and protective clothing.
<b>PPE</b> Respiratory Protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations

## Section 9. Physical and chemical properties

### Physical / chemical properties

Physical State at room temperature	Solid
Melting/freezing point	158°C-170°C
No further safety relevant data are available	

## Section 10. Stability and reactivity

<b>Reactivity:</b>	No information available.
<b>Chemical stability:</b>	Stable under normal conditions.
<b>Conditions to avoid</b>	Heat, flames and sparks. Sunlight.
<b>Incompatible materials</b>	Strong reducers and oxidizers
<b>Possibility of Hazardous Reactions</b>	None under normal processing
<b>Hazardous decomposition products:</b>	Carbon oxides

## Section 11. Toxicological information

### Information on toxicological effects

**The toxicological effects of this product have not been thoroughly studied.**

<b>Acute Toxicity</b>	No data available
<b>Ingestion</b>	May be harmful on ingestion
<b>Inhalation</b>	May be harmful if inhaled. Causes respiratory tract irritation.
<b>Serious eye damage/eye irritation:</b>	Causes eye irritation.
<b>Skin corrosion/irritation:</b>	Moderate skin irritant.
<b>Carcinogenicity</b>	IARC: Group 2A: Probably carcinogenic to humans
<b>Reproductive toxicity / Teratogenicity:</b>	Laboratory results have shown reproductive toxicity/teratogenicity in animal models.
<b>Additional information:</b>	RTECS: DM2560000

## Section 12. Ecological Information

<b>Eco-Toxicity</b>	No further relevant information available
<b>Other adverse effects</b>	No further relevant information available.

## Section 13. Disposal Considerations

### Waste treatment methods

<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations
<b>Contaminated packaging</b>	Dispose of as unused product

## Section 14. Transport information

### UN number, Proper Shipping Name, Transport Hazard Class, packing group

	US DOT	ADR/RID:	IMDG:	IATA
<b>UN Number</b>	Not regulated	Not regulated	Not regulated	Not regulated
<b>UN proper shipping name</b>	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
<b>Transport Hazard Class &amp; Packing Group</b>	Not regulated	Not regulated	Not regulated	Not regulated
	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods

## Section 15. Regulatory information

### Safety, health and environmental regulations/legislation

<b>USA EPA / TSCA</b>	This product is not listed on the USA EPA TSCA
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<b>EU ECHA Status</b>	Registered with the EU ECHA, number 828-728-1 Not on REACH annex III
<b>CA: DSL/NDSL Status</b>	This product is not listed on the Canadian DSL/NDSL

## Section 16. *Other information*

### Date of revision:

- Tuesday, 18 October, 2022 13:10

### Department issuing this SDS

- Quality systems and regulatory affairs

### General Disclaimer

- The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.
- The information given here is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.
- The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

### The users'/employers' responsibility

- A risk assessment should be performed by the employer/user prior to use of this product.
- All recommendations included in this document, are advisory in nature.
- The type of protective equipment must be selected based on the amount and concentration of all dangerous materials being used in the workplace.

End of SDS -----