



Safety Data Sheet: Zearalenone | Fermentek

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

1.1 Product identifier

Product Code: **Z**
Product name: **Zearalenone | Fermentek**
CAS #: **17924-92-4**
EC/ REACH Number

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended use: **Only For Research Use**
Uses advised against: Not for drug,
Not to be used in humans or animals.
Not food additive.

1.3 Details of the manufacturer and supplier of the safety data sheet

Company: **FERMENTEK**
4 Yatziv street, POB 47120
Jerusalem 97800, Israel
Tel: +972 2 5853953
Fax: +972 2 5853943
eMail: fermentek@fermentek.com
Website: www.fermentek.com

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

1.4 Emergency Telephone number

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

1.5 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.

2 Hazards identification

This chemical is considered hazardous by the 2012 **OSHA** Hazard Communication Standard (29 CFR 1910.1200)

Classification

Skin corrosion / irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 2
Reproductive toxicity	Category 2

GHS Label elements, including precautionary statements

Hazard statements
Causes severe skin burns and eye damage
Suspected of causing cancer
Suspected of damaging fertility and/or the unborn child



GHS Label elements, including precautionary statements



Pictograms:

Signal word: Danger

Hazard statements

H314 Causes severe skin burns and eye damage
H351 Suspected of causing cancer
H361 Suspected of damaging fertility or the unborn child

Precautionary Statements/prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
P264 Wash face, hands and any exposed skin thoroughly after handling.
P270 Do not eat, drink, or smoke when using this product.

Precautionary Statements/response

IF IN EYES:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN (or hair):

Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

IF INHALED:

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF SWALLOWED:

Rinse mouth. DO NOT induce vomiting.
Dispose of contents/container in accordance with governmental regulation.

Hazards Not Classified

No data available

NFPA rating

Health hazards 3
Flammability 1
Stability 0
Physical and chemical properties -

HMIS rating

Health hazards 3
Flammability 1
Physical hazards 0
Personal protection -

SECTION 3: Composition/information on ingredients

Substance

CAS No 17924-92-4
Molecular Weight 318.36
Formula C₁₈H₂₂O₅
Chemical Name Zearalenone
Concentration/Purity Weight %>98

Mixture

Not mixture. This product is a pure compound



4 First Aid Measures

General advice	Immediate medical attention is required.
Eye contact	Immediate medical attention is required. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
Skin Contact	Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. If skin irritation persists, call a physician.
Ingestion	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
Inhalation	Immediate medical attention is required. Remove to fresh air. If not breathing, give artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Artificial respiration and/or oxygen may be necessary. Call a physician. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.
Self-protection of the first aider	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.
Most important symptoms	No information available.
Note to physicians	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media	None.

Special hazards arising from the substance

	The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes.
Hazardous combustion products:	Carbon oxides.

Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary. Wear protective suit



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 or leak. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.

Environmental precautions Do not allow into any sewer, on the ground or into any body of water. Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

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 Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Avoid creating dust. Dam up. After cleaning, flush away traces with water.

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.

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.

Incompatible materials: Incompatible with strong acids and bases. Incompatible with oxidizing agents.

8. Exposure Controls/Personal Protection

Exposure controls: No occupational exposure limits are listed for this material

Appropriate eng. Control: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Use fumehood for routine work.

Engineering controls include: Safety showers, Eyewash stations, Ventilation systems

Personal protective equipment

All recommendations below are advisory in nature and a risk assessment should be performed by the employer/end user prior to use of this product. The type of protective equipment must be selected based on the amount and concentration of the dangerous material being used in the workplace.

[PPE=Personal Protection Equipment]

PPE: Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate, use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use



PPE: Hand Protection

respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal techniques to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices, and wash and dry hands

PPE: Eye Protection

Use a face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU)

PPE: Skin and Body Protection

Handle with gloves. Wear protective clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place. When deemed needed according to the concentration and amount of this product, use a complete body suit.

General Hygiene Considerations

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Take off all contaminated clothing and wash it before reuse. Wear suitable gloves and eye/face protection.

9. Physical and chemical properties

Physical / chemical properties

Physical State at room temperature	Solid / powder
Color	Off White
Melting/freezing point	161°C

No further safety-relevant information is available

10. Stability and reactivity

Reactivity:	No information available.
Chemical stability:	Stable under normal conditions.
Hazardous polymerization	No information available
Conditions to avoid	Heat, flames and sparks
Incompatible materials	Strong reducers and oxidizers
Possibility of Hazardous Reactions	None under normal processing
Hazardous decomposition products:	Carbon monoxide CO, Carbon dioxide (CO ₂).

11. Toxicological information

Information on toxicological effects

Acute Toxicity

Rodent (rat) oral LD₅₀ > 16gm/kg (16000mg/kg)

Chronic Toxicity

Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Avoid repeated exposure Possible risk of irreversible effects.



Carcinogenicity:	IARC: Group 3 (Group 3: The agent (mixture or exposure circumstance) is not classifiable as to its carcinogenicity to humans)
Reproductive toxicity:	Suspected human reproductive toxicant Overexposure may cause reproductive disorders/ based on tests with laboratory animals.
Potential Health Effects	
Inhalation:	May be harmful if inhaled. May cause respiratory tract irritation.
Skin:	May be harmful if absorbed through skin. May cause skin irritation.
Eyes:	May cause eye irritation.
Ingestion:	May be harmful if swallowed.
Signs and Symptoms of Exposure:	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Synergistic effects:	no data available
Additional information:	RTECS: XN6300100

To the best of our knowledge, the toxicological, chemical and physical properties of this substance have not been investigated sufficiently.

12. Ecological Information

Eco-Toxicity

Aquatic toxicity:	Not known..
Persistence and degradability:	No further relevant information available.

Behaviour in environmental systems:

Bioaccumulative potential:	No further relevant information available.
Mobility in soil:	No further relevant information available.
PBT/vPvB assessment	not available as chemical safety assessment not required/not conducted
Other adverse effects	No further relevant information available.

13. Disposal Considerations

Waste treatment methods

Waste from residues / unused products

Dispose of in accordance with local regulations.

Contaminated packaging

Dispose of as unused product

14. Transport information

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

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





15. Regulatory information

Safety, health and environmental regulations/legislation

USA EPA / TSCA :

This product is not listed on the USA EPA TSCA

SARA 311/312 Hazard Categories

Acute health hazard Yes

Chronic Health Hazard No

Fire hazard No

Sudden release of pressure hazard No

Reactive hazard No

SARA 302 Components: SARA 302: No chemical in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title II, Section 313.

16: Other information

Date of revision: 01 dec 2016

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 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.

End of SDS-----