

Safety Data Sheet: Zearalanone | Fermentek

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

1.1 Product identifier

Product Code: **ZA**

Product name: **Zearalanone | Fermentek CAS: 5975-78-0**

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

Recommended use: Laboratory chemicals,
Manufacture of substances,
Research.

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

2.1 Classification of the substance or mixture

Acute Toxicity: Inhalation, Category 4
Acute Toxicity: Oral, Category 4
Acute Toxicity: Skin, Category 4
Skin Corrosion/Irritation, Category 2
Serious Eye Damage/Eye Irritation, Category 2
Carcinogenicity, Category 2
Specific Target Organ Toxicity (single exposure), Category 3



2.2 Label Elements:

GHS Signal Word: Warning



GHS Hazard Phrases:

H302:	Harmful if swallowed.
H312:	Harmful in contact with skin.
H315:	Causes skin irritation.
H319:	Causes serious eye irritation.
H332:	Harmful if inhaled.
H335:	May cause respiratory irritation.
H351:	Suspected of causing cancer.

GHS Precaution Phrases:

P201:	Obtain special instructions before use.
P202:	Do not handle until all safety precautions have been read and understood.
P261:	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264:	Wash hands thoroughly after handling.
P280:	Wear protective gloves/protective clothing/eye protection/face protection.

GHS Response Phrases:

P301+312:	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P302+352: IF ON SKIN: Wash with plenty of soap and water.
P304+340:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+313:	IF exposed or concerned: Get medical attention/advice. P312: Call a POISON CENTER or doctor/physician if you feel unwell. P321: Specific treatment {see ... on this label}.
P330:	Rinse mouth.
P332+313:	If skin irritation occurs, get medical advice/attention. P337+313: If eye irritation persists, get medical advice/attention. P362+364: Take off contaminated clothing and wash it before reuse.

GHS Storage and Disposal Phrases:

Refer to Section 7 for Storage

Refer to Section 13 for Disposal information.



Adverse Human Health

Causes serious eye irritation.

Effects and Symptoms:

Causes skin irritation.

Harmful if inhaled, swallowed, or in contact with skin.

May be irritating to the mucous membranes and upper respiratory tract.

May cause respiratory system irritation.

Suspected of causing cancer.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

SECTION 3: Composition/information on ingredients

3.1 Substance

This product is a pure compound.		GHS Classification	
Name:	Zearalanone, pure	Acute Tox.(O)	4: H302
Formula:	C ₁₈ H ₂₄ O ₅	Acute Tox.(D)	4: H312
Molecular Weight:	320.40	Skin Corr.	2: H315
CAS-No. :	5975-78-0	Eye Damage	2: H319
RTECS:	DM2530000	Acute Tox.(I)	4: H332
Chemical characterization :	Semisynthetic product	STOT (SE)	3: H335
		Carcinogen	2: H351

4 First Aid Measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available



5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

No data available

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust. Evacuate personnel to safe areas.

For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains

6.3 Methods and materials for containment and cleaning up

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal. (see section 13)

7. Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Avoid exposure - obtain special instructions before use.

Provide appropriate exhaust ventilation at places where dust is formed.

Take normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities.

Store in a freezer at about -20°C.

Keep container tightly closed in a dry and well-ventilated place.

The product may be light sensitive.

7.3 Specific end uses

Specific uses:

See section 1.2

Exposure scenario:

No information available.



8. Exposure Controls/Personal Protection

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection

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).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of intended use by our users. It should remain under the responsibility of the users to select the protective equipment according to the nature of the intended use(s)

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. Physical and chemical properties

9.1 Physical / chemical properties

Physical State at room temperature	Solid
Melting/freezing point	185°C to 195°C
Water solubility	No information available
Other data	unavailable

10. Stability and reactivity

10.1 Reactivity:	No information available.
10.2 Chemical stability:	Stable under normal conditions. May be light-sensitive.
10.3 Precautionary Statements:	None under normal processing.
10.4 Conditions to avoid	Heat, flames and sparks
10.5 Incompatible materials	Strong reducers and oxidizers
10.6 Hazardous decomposition products:	Carbon monoxide (CO). Carbon dioxide (CO ₂).

11. Toxicological information

11.1 Information on toxicological effects

Quantitative toxicity data:

IARC:

This substance is not identified as human carcinogen.
This substance is not known to be a Mutagen, Teratogen, and/or Genotoxic.

Carcinogenicity

A limited evidence of carcinogenicity was shown in animal studies.

Additional information:

May be eye-irritant.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

12. Ecological Information

Toxicity

Aquatic toxicity:	No further relevant information available.
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.

Results of PBT and vPvB assessment

PBT:	No studies or have been carried out. No assessment has been performed.
vPvB:	No studies or have been carried out. No assessment has been performed.
Other adverse effects	No further relevant information available.



13. Disposal Considerations

13.1 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

14.1 UN number: *N.A.*

14.2 UN proper shipping name

- US DOT: Not dangerous goods
- ADR/RID: Not dangerous goods
- IMDG: Not dangerous goods
- IATA: Not dangerous goods

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the

No data available

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

USA legislation:

SARA 302 Components

SARA 302: No chemicals are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

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

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard





16: Other information

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

Zearalanone-
Date of revision: 28.8.2016
MGuir