



Safety Data Sheet: beta-Zearalanol | Fermentek

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

1.1 Product identifier

CAS # **RN 42422-68-4**
Product name: **beta-Zearalanol | Fermentek**
Product Code **ZALb**

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 ltd

4 Yatziv street
POB 47120
Jerusalem 97800,
Israel

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

Tel: +972 2 5853953
Fax: +972 2 5853943
eMail: fermentek@fermentek.com
Website: www.fermentek.com

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

(Canada) WHMIS Classification

D2A D2B Very Toxic Material Causing Other Toxic Effects
Reproductive hazard
Teratogen
Eye irritant
Respiratory tract irritant
Skin irritant



HMIS Classification

Health hazard:	1
Chronic Health Hazard:	*
Flammability:	0
Physical hazards :	0

Potential Health Effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.
Ingestion	May be harmful if swallowed.

GHS Classification

Skin irritation	(Category 2)
Eye irritation	(Category 2A)
STOT-SE	respiratory tract (Category 3)
Reproductive toxicity	(Category 1B)

GHS Label elements, including precautionary statements

Signal word	Danger
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Hazard statements

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H360	May damage fertility or the unborn child.

Precautionary statements

P201	Obtain special instructions before use.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P302/P352 .	If on skin: Gently 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 so. Continue rinsing.
P308/P313	IF exposed or concerned: Get medical advice/ attention.

GHS Label Pictogram



SECTION 3: Composition/information on ingredients

3.1 Substance

This product is a pure compound.

Synonyms:	(7S,11S)-7,15,17-trihydroxy-11-methyl-12-oxabicyclo[12.4.0]octadeca-1(14),15,17-trien-13-one beta-zearalanol estrogen P 1560 estrogen P-1560 taleranol
Formula:	C ₁₈ H ₂₆ O ₅
Molecular Weight:	322.4
CAS-No. :	42422-68-4
Chemical characterization:	Natural product; extracted from plant



Chemical Name	EC No CAS No RTECS	weight-%
beta-Zearalanol Fermentek	EC: N.A. CAS: 42422-68-4 RTECS: N.A.	<100%

3.2 Mixture

Not a mixture. This product is a pure compound.

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

Flush eyes with water as a precaution.

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.

Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities.

Store in cool place.

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

The product is light sensitive.

7.3 Specific end uses

Specific uses:

See section 1.2

Exposure scenario:

No information available.

8. Exposure Controls/Personal Protection

This product does not contain any components with occupational exposure limit values.

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

Physical / chemical properties

Physical State at room temperature	Solid
Melting point	130°C-140°C
Further information which is relevant to classification	None available

10. Stability and reactivity

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

11. Toxicological information

Acute toxicity:	No information available
Irritation and corrosion:	No information available
Sensitization:	No information available
Reproductive toxicity/Teratogen	Presumed human reproductive toxicant/teratogen

Quantitative toxicity data:

Rodent Oral - mouse LD₅₀ = 2170 mg/kg.

Carcinogenicity

IARC: This substance is not identified as human carcinogen.



Potential health effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.
Ingestion	May be harmful if swallowed

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

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:	This substance is not considered to be persistent, bioaccumulating or toxic.
vPvB:	This substance is not considered to be very persistent, nor very bioaccumulating.

Other adverse effects	No further relevant information available.
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No information available, as PBT/vPvB assessment has not carried out

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 N.A.

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

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*****

Revision by Mgen

Code ZAl6 on 14.Nov.2016

Product name beta-Zearalanol