



Data Sheet a-Zearalanol

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1. Identification of the Substance and the Manufacturer

1.1. Product identifiers

Product name	<u>α-Zearalanol</u> 🐣	Formula	C18H26O5
Product Code	ZAL-001-	Molecular weight	322.4 -g/mol
CAS	26538-44-3	Mixture?	Substance
ECHA	<u>247-769-0</u> ⁴	<u>PUBCHEM</u>	Alpha-Zearalanol &
		<u>RTECS</u>	DM2520000
Drug bank	<u>drugs/DB11478</u>	<u>T3DB</u>	<i>T3D3675</i>
Comptox EPA	<u>4022315</u>	<u>CHEBI</u>	<u>CHEBI:35064</u>
	Frideron; Ralabol; Ralone		Zeranol
Synonyms and other names	5 (5,15 2 m) an enjuritable juj setta resort ejitte aletta ju taletene		

Source Synthetic Vers Date 29 January, 2025

1.2. Intended uses of the Substance and uses advised against

1.2.1. Intended use:		1.2.2. Uses advised against:
Research and development.	Manufacturing of substances.	Not a drug,
Laboratory reagent.	To be used by professionals only	Not a food additive
Reference material.		Not to be used in humans or animals.

1.3. Contacts

1.3.1. Details of the supplier of the SDS

FERMENTEK ltd

4 Yatziv street, POB 47120

Jerusalem 97800,

Israel

Fax: +972 2 5853953

Fax: +972 2 5853943

eMail: Fermentek@Fermentek.com

Safety@Fermentek.com

Website: Fermentek.com

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

1.3.2. 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

2. Hazards' identification.

2.1. Classification of the Substance.

2.1.1. GHS Classification: According to EU Reg. 1272/2008 and US OSHA 1910.1200)

Skin corrosion/irritation	Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation	Category 2A	Н319	Causes serious eye irritation
STOT/SE Respiratory tract	Category 3	Н335	May cause respiratory irritation















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Reproductive toxicity	Category 1	H360	May damage fertility or the unborn child
Carcinogenicity	Category 2	H351	Suspected of causing cancer

2.2. GHS Label elements, including precautionary statements

2.2.1. Pictogram: { None } Signal word: {Danger Warning None}

2.2.2. Hazard Statements

Н315	Causes skin irritation
Н319	Causes serious eye irritation
Н335	May cause respiratory irritation
H360	May damage fertility or the unborn child
Н351	Suspected of causing cancer

2.2.3. GHS Precautionary Statements

P203	Obtain, read and follow all safety instructions before use.
P261	Avoid breathing dust or mist.
P264	Wash {hands} thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection

2.2.4. GHS Response Phrases:

P302+P352	IF ON SKIN: wash with plenty of water
P332+P317	If skin irritation occurs: Get medical help.
P362+P364	Take off contaminated clothing and wash it before reuse.
P305+P351+P338	IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P337+P317	If eye irritation persists: Get emergency medical help.
P304+P340:	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P318:	If exposed or concerned, get medical advice.
P319	Get medical help if you feel unwell.

3. Composition/information on ingredients

Substance	
Substance Name:	α-Zearalanol
Concentration	<=100%
CAS Registry#:	26538-44-3
EC#:	247-769-0
Molecular Formula:	C18H26O5
Molecular Weight:	322.4 -g/mol
Classification	Acc O:2 (H300)













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Mixture? Substance

4. First Aid Measures.

4.1. Description of First Aid Measures.

General advice:

First-aiders need to protect themselves.

If medical attention is required, show this safety data sheet to the doctor in attendance.

Ingestion:

If swallowed: give water to drink (two glasses at most). Seek medical advice immediately.

4.2. Most important symptoms and effects, both acute and delayed

General symptoms See section 11

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians 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.
Unsuitable extinguishing media	None known
50 Od . C .:	

5.2. Other information

Hazardous combustion products	Carbon oxides,	C18H26O5
Advice for firefighters	Wear self-contained brea protective suit.	thing apparatus for fire fighting if necessary. Wear

6. Accidental release measures

6.1. Personal precautions, protective equipment, and emergency procedures

Personal precautions

Use personal protective equipment as required. Keep people away from and upwind of spill/leak.

6.2. Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

memous for contaminent.	sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.
Methods for cleaning up:	Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Cover liquid spill with sand, earth or other non-combustible absorbent material (e.g., sand, earth, diatomaceous earth, and vermiculite). Cover the powder spill with a plastic sheet or tarp to minimize spreading. Sweep up and shovel into suitable containers for disposal.

Prevent further leakage or spillage if safe to do so Cover the powder spill with a plastic















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7. Handling and storage

7.1. 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.

7.2. 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.

Suitable packaging

Must only be kept in original packaging.

Incompatible materials:

None known based on information available.

8. Exposure Controls/Personal Protection

Attiention:

Usually, the product of concern would be present at the intended workplace in miniscule amounts, while surrounded by considerable amounts of other flammable, toxic or otherwise hazardous substances. Therefore, the employer/user should perform a risk assessment prior to the use of this product.

The type of protective equipment must be selected based on the amount and concentration of all dangerous materials being used in the workplace.

All recommendations included in this document are advisory in nature

8.1. Control parameters

Control parameters	Components with workplace control parameters
8.2. Exposure controls	
Appropriate 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 fume-hood for routine work.

8.3. Personal protective equipment

[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 respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
PPE: Hand Protection:	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)















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PPE: Skin and Body 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 Regulation (EU) 2016/425 and the standard EN 374 derived from it.

9. Physical and chemical properties

The information given here does not purport specification of warranty of any kind. It 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.

9.1. Physical/chemical properties

Physical State at room temperature Solid

Appearance White powder

No further safety relevant data are available

10. Stability and reactivity

Reactivity:	No information available.
Chemical stability:	Stable under normal conditions.
Conditions to avoid	Heat, flames and sparks. Sunlight.
Incompatible materials	Strong reducers and exidizers
Possibility of Hazardous Reactions	None under normal processing
Hazardous combustion products	See section 5

11. Toxicological information

11.1. Information on toxicological effects

To the best of our knowledge, the toxicological effects of this product have not been thoroughly studied yet.

11.1.1. Acute Toxicity

Acute toxicity:	Oral, Rodents, LD50= none Intrapetoneal , rodents, LD50= none
Skin corrosion/irritation:	Suspected
Serious eye damage/eye irritation:	Suspected
Respiratory or skin sensitization/corrosion:	No data available

11.1.2. Chronic toxicity

Chronic toxicity No data available

11.1.3. CRM (Carcinogene, Mutagene, Reproductive hazards)

Germ cell mutagenicity:	No data available
Carcinogenicity:	Not classified by IARC















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Reproductive toxicity / Teratogenicity: Adv

Adverse Effects Effects on fetus:

Reduced viability index

Reduced weight gain

Fetotocity

Maternal effects reduced fertility

Paternal effects Affected male organs, sperm

11.2. Additional information

RTECS number DM2520000

General symptoms Nutritional and Gross Metabolic - weight loss or decreased weight gain

12. Ecological Information

Eco-Toxicity
No data available
Other adverse effects
No data available

13. Disposal Considerations

13.1. Waste treatment methods

Waste Disposal	Dispose of in accordance with local regulations
Contaminated packaging	Dispose of as unused product

14. Transport information

14.1. UN Number, Proper Shipping Name, Transport Hazard Class, packing group

	IATA	IMDG	ADR/RID	US/DOT
UN Number, Proper shipment name	Not classified (α-Zearalanol)	Not classified (α-Zearalanol)	Not classified (α-Zearalanol)	Not classified (α-Zearalanol)
Transport hazard Class, Packing group	Not hazardous for transport			

15. Regulatory information

15.1. Safety, health, and environmental regulations/legislation

USA EPA / TSCA	This product is not listed on the USA EPA TSCA (it is for research)
EU ECHA Status	This product is registered with the EU ECHA, Number 247-769-0 REACH: PreRegistered. ANNEX III (criteria for 1 - 10 tonne registered substances): Listed















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16. Other information

16.1. Version information

Version date:8-2024

16.2. Department issuing this SDS

Quality systems and regulatory affairs

16.3. 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 explicitly specified in the text.

16.4. The users'/employers' responsibility:

Usually, the product of concern would be present at the intended workplace in miniscule amounts, while surrounded by considerable amounts of other flammable, toxic or otherwise hazardous substances.

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

16.5. No © copyright



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16.6. *End of SDS*















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Appendix A: Abbreviations and acronyms:

	This symbol means, the text looking like a hyperlink, is a clickable link indeed. Of course, these are only active on glass screens, not on paper.	
Sweeth etic / Emers	"Synthetic" means this compound has been manufactured by chemical conversion of another product of ours.	
Synthetic / From	"From" means the compound was extracted from biomass, whther algal, fungal, microbial or plant material	
Mixture/Substance/ Complex	Substance means a single compound., Mixture means there are two or more pure substances mixed purposely. Complex is a mixture of two or more substances which naturally occur together and are sold unseparated	
Acute Tox.:	Acute toxicity	
CAS:	Chemical Abstracts Service	
ChEBI	Chemical Entities of Biological Interest	
Comptox	CompTox Chemicals Dashboard Resource Hub (EPA)	
DOT:	US Department of Transportation	
ЕСНА	European Chemicals Agency	
EINECS:	European Inventory of Existing Commercial Chemical Substances	
EPA	United States Environmental Protection Agency	
Eye Dam.:	Serious eye damage/eye irritation	
HSDB	Hazardous Substances Data Bank	
HMIS:	Hazardous Materials Identification System (USA)	
IATA:	International Air Transport Association	
IMDG:	International Maritime Code for Dangerous Goods	
LC50:	Lethal concentration, Median	
LD50:	Lethal dose, Median	
LDL0	Letal dose, leatst published	
NDG	Not dangerous goods (for transport)	
NFPA:	National Fire Protection Association USA	
NIOSH:	National Institute for Occupational Safety	
NOAEL	No-Observed-Adverse-Effects-Level. Highest dose which yelded no results at toxisity test	
OSHA:	Occupational Safety & Health	
PBT:	Persistent, Bioaccumulative, and Toxic	
PEL:	Permissible Exposure Limit	
PubChem	An open chemistry database at the National Institutes of Health (NIH). "	
REL:	Recommended Exposure Limit	
Repr.:	Reproductive toxicity, incl. hazards to reproductive systems, and pregnancy and the offspring.	
RTECS:	Registry of Toxic Effects of Chemical Substances. Not free.	
Skin Irrit:	Skin corrosion/irritation	















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STOT/SE	Specific target organ toxicity/Single exposure	
STOT/RE	Specific target organ toxicity/Repeated exposure	
T3DB	Toxin and Toxin Target Database	
TDL0	Toxic dose, least published	









