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1. Identification of the Substance and the Manufacturer

1.1. Product identifiers

1.2. Intended uses of the Substance and uses advised against

Product name	<u>Zearalanone</u>	Formula	C18	H24O5
Product Code	ZRA	Molecular weight	320	.4 g/mol
CAS#	<u>5975-78-0</u>	Mixture?	Sub	stance
ECHA#	<u>637-367-7</u>	<u>PUBCHEM</u>	<u>108</u>	<u>003</u>
Comptox EPA	<u>6022395</u>	<u>RTECS</u>	-No	t listed-
<u>CHEBI</u>	<u>CHEBI:35051</u>			
Synonyms and	Zanone	alpha-Zearalanone		
other names	1H-2-Benzoxacyclotetradecin-1,7(8H)-dione, 3,4,5,6,9,10,11,12-octahydro-14,16-dihydroxy-3-methyl-, (3S)-			
Cource	Swathatic	Vers Date		21 October 2024

Source	Synthetic	Vers Date	21 October, 2024

1.2.1. Intended use: 1.2.2. Uses advised against:

Research and development. Not a drug,

Laboratory reagent. Not a food additive

Reference material. Not to be used in humans or animals.

Manufacturing of substances.

To be used by professionals only

1.3. Contacts

1.3.1. Details of the supplier of the SDS

FERMENTEK ltd Tel: +972 2 5853953 4 Yatziv street, POB 47120 Fax: +972 2 5853943

Jerusalem 97800, eMail: <u>Fermentek@Fermentek.com</u>

Israel <u>Safety@Fermentek.com</u>

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













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- 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)

Not hazardous, not classified according to EU Reg. 1272/2008 and US OSHA 1910.1200).

- 2.2.GHS Label elements, including precautionary statements
 - 2.2.1. Pictogram: { None } Signal word: { None}
 - 2.2.2. Hazard Statements

Not hazardous, not classified according to EU Reg. 1272/2008 and US OSHA 1910.1200).

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:

3. Composition/information on ingredients

Substance	
Substance Name:	Zearalanone
Concentration	<=100%
CAS Registry#:	5975-78-0
EC#:	637-367-7
Molecular Formula:	C18H24O5
Molecular Weight:	320.4 g/mol
Classification	Not classified
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.













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

General symptoms <u>See section 11</u>

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.

Advice for firefighters

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	None known
5.2. Other information	
Hazardous combustion products	Carbon oxides, Nitrogene oxides, Sulfur oxides, Sulfur hydrogene C18H24O5

Wear self-contained breathing apparatus for fire fighting if necessary.

6. Accidental release measures

6.1. Personal precautions, protective equipment, and emergency procedures

Wear protective suit.

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

Methods for containment:	Prevent further leakage or spillage if safe to do so. Cover the powder spill with a plastic 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.

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.













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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	Showers, Eyewash stations, Ventilation systems
controls	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

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[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	













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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. 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, Mouse, LD50>500 mg/kg
	Dermal, mouse, LD50>1000 mg/kg
	No other acute toxicity available.
Skin corrosion/irritation:	No data available













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Serious eye damage/eye irritation:	No data available
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
Reproductive toxicity / Teratogenicity:	No data available

11.2. Additional information

RTECS number	-Not listed-
General symptoms	

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











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14. Transport information

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

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

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 637-367-7 REACH: Neither Registered nor PreRegistered. ANNEX III (criteria for 1 - 10 tonne registered substances): Not Listed











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16. Other information

16.1. Version information

Version date:8-2024

Not hazardous for transport

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. Synthetic / From "Synthetic" means this compound has been manufactured by chemical conversion of another product of ours "From" means the compound was extracted from biomass, whither algal, fungal, microbial or plant material Mixture Mixture means there are two or more pure substances mixed purposely. Not including cases of two or more substances which naturally occur together and are sold unseparated Acute Tox.: 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 ECHA 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 LCSO: Lethal concentration, Median LDLO Letal dose, leatst published NDG Not dangerous goods (for transport) NPPA: National Fire Protection Association USA
Synthetic / From "Synthetic" means this compound has been manufactured by chemical conversion of another product of ours "From" means the compound was extracted from biomass, whther algal, fungal, microbial or plant material Mixture/Substance Mixture means there are two or more pure substances mixed purposely. Not including cases 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 ECHA 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 LCSO: Lethal concentration, Median LDD0 Letal dose, Median LDD0 Letal dose, leatst published NDG Not dangerous goods (for transport) NFPA: National Fire Protection Association USA
Mixture/Substance Mixture means the compound was extracted from biomass, whther algal, fungal, microbial or plant material Mixture/Substance Mixture means there are two or more pure substances mixed purposely. Not including cases 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 ECHA 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 LD10 Letal dose, leatst published NDG Not dangerous goods (for transport) NFPA: National Fire Protection Association USA
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NIOCUL National Institute for Occupational Cafety
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
STOT/SE Specific target organ toxicity/Single exposure
STOT/RE Specific target organ toxicity/Repeated exposure
T3DB Toxin and Toxin Target Database
TDLO Toxic dose, least published







