



Sections

Beta-Zearalenol

-¹⁰ 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

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Identification of the Substance and the Manufacturer 1. 1.1.

Product identifiers

Intended uses of the Substance and uses advised against *1.2*.

Product name	<u>Beta-Zearalenol</u>	Formula		C18H24O5
Product Code	ZLB-001	Molecular weight		320.28 g/mol
CAS#	<u>71030-11-0</u>	Mixture?		Substance
ECHA#	<u>664-283-8</u>	PUBCHEM	<u>1</u>	beta-Zearalenol
Comptox EPA	<u>8022533</u>	<u>RTECS</u>		DM2570000
<u>CHEBI</u>	<u>CHEBI:35072</u>	<u>T3DB</u> #		<u>T3D405</u>
Synonyms and	Zearalenol, beta-			
other names	her names 1H-2-Benzoxacyclotetradecin-1-one, 3,4,5,6,7,8,9,10-octahydro-7,14,16-trihyd methyl-, (3S,7S,11E)-		dro-7,14,16-trihydroxy-3-	
Source	Synthetic		Vers Date	7 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 5	853953
4 Yatziv street, POB 47120	Fax: +972 2 3	5853943
Jerusalem 97800,	eMail:	<u>Fermentek@Fermentek.com</u>
Israel		<u>Safety@Fermentek.com</u>
	Website:	<u>Fermentek.com</u>

This company is the manufacturer of the product and the supplier of the safety data sheet **Emergency Telephone number** 1.3.2.

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	

None

ivone	
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:

P301+P312, P330	IF SWALLOWED: call a POISON CENTER/doctor/if you feel unwell. Rinse mouth.
<i>P305+P351+P338</i> , <i>P337+P313</i>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. IF eye irritation persists: Get medical advice/attention.
P391	Collect spillage.

3. Composition/information on ingredients

Substance

Substance Name:	Beta-Zearalenol
Concentration	<=100%
CAS Registry#:	71030-11-0
<i>EC</i> #:	664-283-8
Molecular Formula:	C18H24O5
Molecular Weight:	320.28 g/mol
Classification	Acc 0:4 (H302)
Mixture?	Substance







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<i>1.1.</i>	Description of Firs	
1		First-aiders need to protect themselves.
		If medical attention is required, show this safety data sheet to the doctor in attendance.
Inges	stion:	If swallowed: give water to drink (two glasses at most). Seek medical advice immediately.
1.2.	Most important syn	nptoms and effects, both acute and delayed
Gene	eral symptoms	See section 11
1.3.	Indication of any i	nmediate medical attention and special treatment needed
Note	to physicians	No data available
5.	Fire-fighting me	asures.
5.1.	Extinguishing mea	ia.
Suita	ble extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsu	uitable extinguishing med	a None known
5.2.	Other information	
Haza	urdous combustion produc	ts Carbon oxides, C18H24O5
Advice for firefighters		Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit.
5.	Accidental relea	se measures
5.1.	Personal precautio	ns, protective equipment, and emergency procedures
Perso	onal precautions	Use personal protective equipment as required. Keep people away from and upwind of spill/leak.
6.2. Environmental precautions		
Envi	ronmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
5.3.	Methods and mater	ial for containment and cleaning up
Meth	ods for containment:	Prevent further leakage or spillage if safe to do so. Cover the powder spil with a plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.
th co		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

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	<i>minimize spreading. Sweep up and shovel into suitable containers for disposal.</i>
7. Handling and sto	prage
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 Contro	la/Danganal Duataction

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

0.1. 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]







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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)
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 oxidizers	
Possibility of Hazardous Reactions	None under normal processing	
Hazardous combustion products	See section 5	







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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*

No data available
No data available
No data available
No data available
No data available
ene, Reproductive hazards)
No data available
Not classified by IARC
No data available
DM2570000
No data available
ion
All Zearalenone related compounds are considered toxic to aquatic life
No data available
ions
ds
Dispose of in accordance with local regulations
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, Proper shipment name	Not classified. Not hazardous for transport (β-Zearalenol)			
Transport hazard Class, Packing group	Not hazardous for transport Not regulated			
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 StatusThis product is registered with the EU ECHA, Number 664-283-8REACH: Neither Registered nor PreRegistered.ANNEX III (criteria for 1 - 10 tonne registered substances): Not Lister	4



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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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Append	ix A : Abbreviations and acronyms:		
А	This symbol means, the text looking like a hyperlink, is a clickable link indeed. Of course, these are only active		
0	on glass screens, not on paper.		
	<i>"Synthetic"</i> 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 means there are two or more pure substances mixed purposely.		
Mixture/Substance	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		
LD50:	Lethal dose, Median		
LDLO	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		
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		

