FERMENTEK LTD
Making Fine Biochemicals

Safety Data Sheet: Hydrolyzed Fumonisin B2

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

1.1. *Product identifiers*

Product name	*Hydrolyzed Fumonisin B2*	*Formula*	*$C_{22}H_{47}NO_4$*
Product Code	*HFB2*	*RTECS*	*N.A.*
CAS #	*147985-10-2*	*Molecular weight*	*389.61*
		PUBCHEM	*SID: 497105018*
EC Number #	*N.A.*	*Substance? Mixture?*	*Substance*
Synonyms	• *3,5,14,15-Eicosanetetrol, 2-amino-12,16-dimethyl-, [2S-(2R*,3R*,5S*,12R*,14R*,15S*,16S*)]-* • *(2S,3S,5R,12S,14S,15R,16R)-2-Amino-12,16-dimethyl-3,5,14,15-eicosanetetrol* • *Fumonisin AP2* • *Fumonisin HB2* • *Hydrolyzed fumonisin B2*		
Source	*Semisynthetic*	*Date of version*	*10 October, 2024*

1.2. *Intended uses of the substance or mixture and uses advised against*

1.2.1. *Intended use:*	1.2.2. *Uses advised against:*
Research and development. *Laboratory reagent.* *To be used by professionals only*	*Not for drug,* *Not to be used in humans or animals.* *Not food additive*

1.3. *Details of the supplier of the SDS*		1.4. *Emergency Telephone number*
FERMENTEK ltd *4 Yatziv street, POB 47120* *Jerusalem 97800,* *Israel*	*Tel: +972 2 5853953* *Fax: +972 2 5853943* *eMail: fermentek@fermentek.com* *Website: www.fermentek.com*	*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*
This company is the manufacturer of the product, and the supplier of the safety data sheet		

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 classified.		Caution - substance not yet fully tested.

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2.2. GHS Label elements, including precautionary statements

2.2.1. *Pictogram: { None}*

2.2.2. *Signal word { None}*

2.2.3. *GHS Hazard Statements*

	None. Not classified. Caution - substance not yet fully tested.

2.2.4. *GHS Precautionary Statements*

	None. Not classified. Caution - substance not yet fully tested.

2.2.5. *GHS Response Phrases*

	None. Not classified. Caution - substance not yet fully tested.

2.3. Other hazards

	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. Composition/information on ingredients

Substance		
Substance name:	*Hydrolyzed Fumonisin B2*	
Concentration	*100%*	
CAS Registry#:	*147985-10-2*	
EC#:	*N.A*	
Molecular Formula:	*$C_{22}H_{47}NO_4$*	
Molecular Weight:	*389.61*	
Classification	*Not classified*	
Mixture?	*Substance.*	

4. First Aid Measures

4.1. Description of First Aid Measures

General advice:	*Consult a physician if necessary. Remove to fresh air. Show this safety data sheet to the doctor in attendance.*
Inhalation:	*If inhalled, move person into fresh air.* *If not breathing, give artificial respiration.* *Consult a physician.*
Ingestion:	*Never give anything by mouth to an unconscious person. Clean mouth with water. Consult a physician.*
Skin Contact:	*If on skin: Wash skin with soap and water*
Eye contact:	*Flush eyes with water as a precaution*

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

Observations in mamals	No information available

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

4.3.1. Note to physicians	No information available

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use water foam Carbon dioxide (CO2) Dry powder
Unsuitable extinguishing media	None known

5.2. Other information

Hazardous combustion products	Carbon oxides; Nitrogen oxides
More information	Combustible.
Advice for firefighters	Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit.

6. Accidental release measures

6.1. Personal precautions, protective equipment, and emergency procedures

Personal precautions	Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. 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 powder spill with 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 powder spill with 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.* *Store at -20 °C.* *Some other manufacturers may advice storing temperature 2-8°C.*
Suitable packaging	*Store in original package*
Incompatible materials:	*None known based on information available.*

8. Exposure Controls/Personal Protection

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 fumehood 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 fullface 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 must satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.*

9. Physical and chemical properties

9.1. Physical / chemical properties

Physical State at room temperature	*Solid*

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Color	*Brown to yellow film*
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 decomposition products	*Nitrogene oxides. Carbon oxides.*

11. Toxicological information

11.1. Information on toxicological effects

The toxicological effects of this product have not been thoroughly studied.

Acute Toxicity	
Oral	*No data available*
11.1.1. *Information on likely routes of exposure*	
Inhalation	*No data available*
Skin corrosion/irritation:	*No data available*
Serious eye damage/eye irritation:	*Irritating effect*
Respiratory or skin sensitization/corrosion:	*No data available*
11.1.2. *CMR hazards (Carcinogenic, mutagenic, reprotoxic)*	
Mutagenicity	*No data available*
Germ cell mutagenicity:	*No data available*
Carcinogenicity:	*No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.*
Reproductive toxicity / Teratogenicity:	*No data available*
STOT-SE – single exposure (GHS):	*No data available*
STOT-RE – repeated exposure (GHS):	*No data available*
Aspiration hazard:	*No data available*
11.1.3. *Potential Health Effects and Routes of Exposure*	
If Inhaled	*No data available*
If swallowed	*No data available*
If on skin	*No data available*

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If in Eyes	*No data available*

11.2. *Potential Health effects*

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

11.3. *Additional information*

RTECS number	*N.A.*

12. *Ecological Information*

Persistence and degradability	*This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.*
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, Proper Shipping Name, Transport Hazard Class, packing group*

	US DOT	*IATA*	*IMDG*	*ADR/RID*
UN Number *UN proper shipping name*	*Not dangerous for transport and/or not regulated.*	*Not dangerous for transport and/or not regulated.*	*Not dangerous for transport and/or not regulated.*	*Not dangerous for transport and/or not regulated.*
Transport Hazard Class & Packing Group	*Not dangerous for transport and/or not regulated.*	*Not dangerous for transport and/or not regulated.*	*Not dangerous for transport and/or not regulated.*	*Not dangerous for transport and/or not regulated.*
			Not marine polutant	

14.2. *Addional information*

Excepted quantities (EQ)	*Not applicable*
De Minimis exemption	*Not applicable*

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15. Regulatory information

15.1. Product-specific safety, health, and environmental regulations/legislation

USA EPA / TSCA	*This product is not listed on the USA EPA TSCA (it is for research)*
California proposit. 65	*This product is not listed on California proposit. 65 as on Jan 3, 2020*
EU ECHA Status	*This product is registered with the EU ECHA, Number N.A* *REACH: pre registred ; ANNEX III: Listed*
Canada	*This product is not listed on the Canadian DSL/NDSL*

16. Other information

16.1. Department issuing this SDS

- *Quality systems and regulatory affairs*

16.2. 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 specified in the text.*

16.3. The users'/employers' responsibility:

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

16.4. Abbreviations and acronyms:

Acute Tox.: Acute toxicity
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DOT: US Department of Transportation
EINECS: European Inventory of Existing Commercial Chemical Substances
Eye Dam.: Serious eye damage/eye irritation
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
NFPA: National Fire Protection Association (USA)
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
PBT: Persistent, Bioaccumulative and Toxic
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Repr.: Reproductive toxicity
Skin Irrit: Skin corrosion/irritation

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STOT RE: Specific target organ toxicity (repeated exposure)
TLV: Threshold Limit Value
vPvB: very Persistent and very Bioaccumulative

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16.5. *No9Copyright statement*

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16.6. *End of SDS*

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