

Safety Data Sheet: *Aphidicolin*

1. Identification of the Substance and the Manufacturer

1.1. Product identifiers

Product name	<i>Aphidicolin</i>	Formula	<i>C₂₀H₃₄O₄</i>
Product Code	<i>AP</i>	RTECS	<i>PB9185000</i>
CAS #	<i>38966-21-1</i>	Molecular weight	<i>338.5</i>
EC Number #	<i>60-602-2</i>		
Synonyms	<i>(3R,4R,4aR,6aS,8R,9R,11aS,11bS)-4,9-bis(hydroxymethyl)-4,11b-dimethyltetradecahydro-8,11a-methanocyclohepta[a]naphthalene-3,9-diol</i>		
Date of version	<i><1 Dec, 2022></i>	Substance?Mixture?	<i>Substance</i>

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

Intended use:	Uses advised against:
<i>Research and development. Laboratory reagent. Reference material. Manufacturing of substances.</i>	<i>Not for drug, Not to be used in humans or animals. Not food additive</i>

1.3. Company information

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

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008:	<i>Not a hazardous substance or mixture according to Regulation (EC) No. 1272/20</i>
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2.2. GHS Label elements, including precautionary statements

Pictogram: None Signal word: {None}

2.3. GHS Hazard Statements

2.4. GHS Precautionary Statements

P201	<i>Obtain special instructions before use.</i>
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3. Composition/information on ingredients

Substance

Substance name:	<i>Aphidicolin</i>
Concentration	<i>100%</i>
	<i>CAS Registry #:38966-21-1</i>
	<i>EC#: 60-602-2</i>
	<i>RTECS PB9185000</i>
	<i>Molecular Formula: C₂₀H₃₄O₄</i>
	<i>Molecular Weight: 338.5</i>
Classification	<i>Mutagene</i>
Mixture?	<i>Substance</i>

4. First Aid Measures

4.1. Description of First Aid Measures

General advice:	<i>Consult a physician. Show this safety data sheet to the doctor in attendance.</i>
Eye contact:	<i>Flush eyes with water as a precaution.</i>
Skin Contact:	<i>Wash off with soap and plenty of water.</i>
Ingestion:	<i>Never give anything by mouth to an unconscious person. Rinse mouth with water.</i>
Inhalation:	<i>If breathed in, move person into fresh air. If not breathing, give artificial respiration.</i>
Symptoms	<i>No information available.</i>
Note to physician	<i>No information available.</i>

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	Solid water stream may be inefficient.

5.2. Other information

Hazardous combustion products	Carbon oxides.
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	Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.
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6.2. Environmental precautions

Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
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6.3. Methods and material for containment and cleaning up

Methods for containment:	Prevent further leakage or spillage if safe to do so. Contain spill and collect, as appropriate
Methods for cleaning up:	Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling:	Provide appropriate exhaust ventilation at places where dust is formed.
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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.
Incompatible materials:	None known based on information available.

8. Exposure Controls/Personal Protection

8.1. Control parameters

Exposure Limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies
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8.2. Exposure controls

Appropriate engineering controls	General industrial hygiene practice.
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8.3. Personal protective equipment

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

[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 have to 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 / powder
Color	
Melting/freezing point	
Volatile?	Not volatile
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
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Hazardous decomposition products	Carbon oxides
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11. Toxicological information

11.1. Information on toxicological effects

Acute Toxicity

Ingestion	No data available
Inhalation	No data available
Absorption thru Skin	No data available
Skin corrosion/irritation:	No data available
Serious eye damage/eye irritation:	No data available
Respiratory or skin sensitization/corrosion:	No quantitative data available.

Chronic toxicity

Chronic Toxicity	Aphidicolin- Investigated as a mutagen and natural product.
Mutagenicity:	DNA inhibition. DNA damage in animals.
Carcinogenicity:	IARC Cancer Review : Limited evidence for carcinogenicity in animals Tumorigenic - neoplastic by RTECS criteria Lungs, Thorax, or Respiration - tumors Liver - tumors
Reproductive toxicity / Teratogenicity:	TDL0 : 0.5 mg/kg fed to a female mouse 11 days after conception. Effects: Fetal teeth, specific development abnormalities in musculoskeletal system - , eye/ear, craniofacial,

11.2. Additional information

RTECS number	PB9185000
Symptoms	Not applicable

12. Ecological Information

12.1. Toxicity

This product is not classified as environmentally hazardous according to the UN Model Regulations, nor a marine pollutant according to the IMDG Code.

12.2. Persistence and degradability

No information available.

12.3. Results of PBT and vPvB assessment

Not performed

12.4. Other adverse effects

No 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 IATA	US ADR	US RID	US IMDG
UN Number UN proper shipping name	Not dangerous goods (Aphidicolin)	Not dangerous goods (Aphidicolin)	Not dangerous goods (Aphidicolin)	Not dangerous goods (Aphidicolin)
Transport Hazard Class & Packing Group	Not regulated	Not regulated	Not regulated	Not regulated
				Not marine pollutant

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation

Canadian regulations	This product is Not listed on the Canadian DSL/NDSL.
USA EPA / TSCA	This product is Not listed on the USA TSCA (For R&D)
EU ECHA Status	This product is registered with the EU ECHA, Number 60-602-2 ANNEX III: Listed REACH: Preregistration process.

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. Comments:

16.5. 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*
- *STOT RE: Specific target organ toxicity (repeated exposure)*
- *TLV: Threshold Limit Value*
- *vPvB: very Persistent and very Bioaccumulative*

16.6. No-Copyright statement



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16.7. End of SDS