



Safety Data Sheet: Altenuene

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

1.1. Product identifiers

Product name	Altenuene	Formula	$C_{15}H_{16}O_6$
Product Code	ALT	RTECS	HP8758000
CAS #	29752-43-0	Molecular weight	292.28
EC Number #	636-905-8	Substance? Mixture?	Substance
Synonyms	(2S,3S,4aS)-2,3,7-trihydroxy-9-methoxy-4a-methyl-3,4-dihydro-2H-benzo[c]chromen-6-one		
Source	<i>Alternaria sp.</i>	Date of version	13 October, 2022

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

1.2.1. Intended use: <ul style="list-style-type: none"> Research and development. Laboratory reagent. To be used by professionals only 	1.2.2. Uses advised against: <ul style="list-style-type: none"> Not for drug, Not to be used in humans or animals. Not food additive
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1.3. Details of the supplier of the SDS

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

1.4. 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

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

1.5. Reach:

See section 15

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)

Acute toxicity, Oral	(Category 3)	H301 Toxic if swallowed
Acute toxicity, Dermal	(Category 3)	H311 Toxic if on skin
Acute toxicity, Inhaled	(Category 3)	H331 Toxic if inhaled

2.2. GHS Label elements, including precautionary statements

2.2.1. Pictogram: {  } Signal word { Warning }

2.2.2. GHS Hazard Statements

H301+H311+H331 Toxic if swallowed, on skin or inhaled

2.2.3. GHS Precautionary Statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.



Safety Data Sheet: **Altenuene**

P264	Wash {hands} thoroughly after handling.
P270	Do not eat, drink or smoke when using this product
P284	Wear respiratory protection

2.2.4. GHS Response Phrases

P301+P312	If swallowed: Call a poison center/doctor
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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.
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3. Composition/information on ingredients

Substance	
Substance name:	Altenuene
Concentration	100%
CAS Registry#:	29752-43-0
EC#:	636-905-8
Molecular Formula:	C ₁₅ H ₁₆ O ₆
Molecular Weight:	292.28
Classification	Acute toxicity, Oral (Category 3), Acute toxicity, Dermal (Category 3), Acute toxicity, Inhalation (Category 3)
Mixture?	Substance.

4. First Aid Measures

4.1. Description of First Aid Measures

General advice:	If medical attention is required, show this safety data sheet to the doctor
Inhalation:	If inhaled, move person into fresh air. If not breathing, give artificial respiration.
Ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Do NOT induce vomiting unless advised to do so by a physician or Poison Control Center. Seek medical attention.
Skin Contact:	Wash affected area with soap and water. Consult a physician if any exposure symptoms are observed
Eye contact:	Rinse eyes with plenty of water as a precaution.

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

	No information available
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4.3. Indication of any immediate medical attention and special treatment needed

	No information available
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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



Safety Data Sheet: **Altenuene**

5.2. Other information

Hazardous combustion products	Carbon oxides; Nitrogen 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	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.
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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. 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	
Incompatible materials:	None known based on information available.

8. Exposure Controls/Personal Protection

8.1. Control parameters

Control parameters	Components with workplace control parameters
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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.
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Safety Data Sheet: **Altenuene**

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 / powder
Color	White to off-white
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 decomposition products	Carbon oxides.

11. Toxicological information

11.1. Information on toxicological effects

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

11.1.1. Acute Toxicity	
Oral	Oral: No data available LDLo - Lowest published lethal dose Intraperitoneal/Rodent/mouse 50 mg/kg
Skin corrosion/irritation:	No data available
Serious eye damage/eye irritation:	No data available
Respiratory or skin sensitization/corrosion:	No data available
11.1.2. CMR hazards 	(Carcinogenic, mutagenic, reprotoxic)
In vitro data	Causes mutations in bacteria in vitro



Safety Data Sheet: **Altenuene**

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-SE – 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
If in Eyes	No data available

11.2. Additional information

RTECS number	No data available
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12. Ecological Information

Eco-Toxicity	No further relevant information available
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	UN 3462 6.1 – POISON	UN 3462 6.1 – POISON	UN 3462 6.1 – POISON	UN 3462 6.1 – POISON
Transport Hazard Class & Packing Group	Pack.Grp III (Altenuene)	Pack.Grp III (Altenuene)	Pack.Grp III (Altenuene)	Pack.Grp III (Altenuene)
			Not marine pollutant	

14.2. Additional information

Excepted quantities (EQ)	
De Minimis exemption	When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore, packaging does not have to be labeled as Dangerous Goods/Excepted Quantity



Safety Data Sheet: **Altenuene**

15. Regulatory information

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

USA EPA / TSCA	<i>This product is not listed on the USA EPA TSCA (it is for research)</i>
California proposition. 65	<i>This product is not listed on California proposition. 65 as on Jan 3, 2020</i>
EU ECHA Status	<i>This product is registered with the EU ECHA, Number 636-905-8 REACH: Not registered ANNEX III: Not Listed</i>
Canada	<i>This product is not listed on the Canadian DSL/NDSL</i>

16. Other information

16.1. Date of revision:

- Thursday, 13 October, 2022 16:10

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 specified in the text.

16.4. 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.

16.5. Comments:

- Depreciated CAS Registry numbers: **88899-63-2**

16.6. 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



Safety Data Sheet: **Altenuene**





- *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*

16.7. **End of SDS**



Safety Data Sheet: **Altenuene**

Source: <https://www.babelplex.com/a-guide-to-ghs-pictograms/>

<p>Toxic Acute toxicity (oral, dermal, inhalation) (cat. 1, 2, 3)</p> 	<p>Health Hazard Respiratory sensitization (cat. 1) Germ cell mutagenicity (cat. 1A, 1B, 2) Carcinogenicity (cat. 1A, 1B, 2) Reproductive toxicity (cat. 1A, 1B, 2) Specific target organ toxicity following single exposure (cat. 1, 2) Specific target organ toxicity following repeated exposure (cat. 1A, 1B, 2) Aspiration hazard (cat. 1, 2)</p> 	<p>Irritant</p>  <p>Acute toxicity (oral, dermal, inhalation) (cat. 4) Skin irritation (cat. 2, 3) Eye irritation (cat. 2A) Skin sensitization (cat. 1) Specific target organ toxicity following single exposure (cat. 3) Respiratory tract irritation Narcotic effects</p>
<p>Corrosive Corrosive to metals (cat. 1) Skin corrosion (cat. 1A, 1B, 1C) Serious eye damage (cat. 1)</p> 	<p>Environmentally Damaging Acute hazards to the aquatic environment (cat.1) Chronic hazards to the aquatic environment (cat. 1, 2)</p> 