

Safety Data Sheet: Alternariol

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

Product identifiers

Product name	Alternariol	EC Number	N.A.
Product Code	AOH	Formula	C₁₄H₁₀O₅
Pure substance/mixture	Substance	Molecular weight	258.24
CAS #	641-38-3	RTECS	HP8757000

Intended uses of the substance or mixture and uses advised against

Intended use	Uses advised against:
Only for Research and/or Development	Not for drug, Not to be used in humans or animals. Not food additive
Details of the supplier of the safety data sheet	Emergency Telephone number
FERMENTEK ltd 4 Yatziv street, POB 47120 Jerusalem 97800, Israel	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
Tel: +972 2 5853953 Fax: +972 2 5853943 eMail: fermentek@fermentek.com Website: www.fermentek.com	
This company is the manufacturer of the product, and the supplier of the safety data sheet	

REACH

A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

2) Hazards identification

Classification of the substance or mixture

GHS Classification:

Reproductive toxicity Cat. 2 H360: May damage fertility or the unborn child

GHS Label elements, including precautionary statements

Contains **Alternariol**



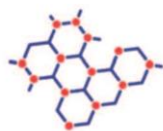
Pictogram: Signal word: {warning}

GHS Hazard Statements

H360	May damage fertility or the unborn child
H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled

GHS Precautionary Statements

P261:	Avoid breathing dust/fumes/gas/mist/vapours/spray.
P263:	Avoid contact during pregnancy/while nursing.



3) Composition/information on ingredients

Substance

Substance name: *Alternariol*
 CAS Registry: **641-38-3**
 EC number#: **N.A.**
 Molecular Formula: **C₁₄H₁₀O₅**
 Molecular Weight: **258.2**
 Concentration (weight/weight): **>98%**

Mixture Not mixture.

4) First Aid Measures

Description of First Aid Measures	
General advice:	If medical attention is required, show this safety data sheet to the doctor.
Eye contact:	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
Skin Contact:	Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. If skin irritation persists, call a physician.
Ingestion:	Do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Drink plenty of water. Clean mouth with water and drink afterwards plenty of water. Call a physician
Inhalation:	Immediate medical attention is required Remove to fresh air If not breathing, give artificial respiration Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Artificial respiration and/or oxygen may be necessary. Call a physician Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician
Self-protection of the first aider:	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.
Symptoms and effects:	No information is available
Note to physicians:	Treat symptomatically

5) Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	None
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

Personal precautions, protective equipment and emergency procedures

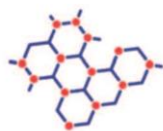
Personal precautions Use personal protective equipment as required. Keep people away from and upwind of spill/leak.

Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

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: 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

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.

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

No occupational exposure limits are listed for this material.

OSHA Permissible Exposure Limits	No Data Available
NIOSH Recommended Exposure Limits	No Data Available
ACGIH Threshold Limit Values	No Data Available

Exposure controls

Appropriate engineering controls

Engineering Controls	Showers, Eyewash stations, Ventilation systems
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Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Use fumehood for routine work.

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.

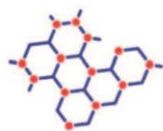
[PPE=Personal Protection Equipment]

PPE: Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate, use a 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. Wear protective clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place. When deemed needed according to the concentration and amount of this product, use a complete body suit



9) Physical and chemical properties

Physical / chemical properties

Physical State at room temperature	Solid / powder
Color	white
Volatile?	No
No further safety-relevant information is 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

Information on toxicological effects

**The toxicological effects of this product have not been thoroughly studied
Some other SDS vendors might have classified this product as very toxic. (To our opinion, with insufficient support).**

Acute Toxicity	Alternariol possesses very weak acute toxicity.
LD50 (oral)	No toxic effects occurred after feeding with alternariol up to 24 mg/kg for 21 days. (Encyclopedia of food mycotoxins)
Skin corrosion/irritation:	No data available
Serious eye damage/eye irritation:	No data available
Respiratory or skin sensitization:	No data available
Germ cell mutagenicity:	Possible human mutagen (Based on cell culture experiments)
Carcinogenicity:	Not classified by ACGIH, IARC, NIOSH, NTP, or OSHA
Reproductive toxicity / Teratogenicity:	Fetotoxicity; teratogenicity at 200 mg/kg in mice, intraperitoneal. Same dose caused death of part of the mice (Encyclopedia of food mycotoxins)
Aspiration hazard:	No data available
Signs and Symptoms of Exposure	No information available.
Additional information:	RTECS: HP8757000

12) Ecological Information

Eco-Toxicity	No further relevant information available
Other adverse effects	No further relevant information available.

13) Disposal Considerations

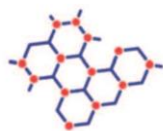
Waste treatment methods

Waste from residues / unused products	Dispose of in accordance with local regulations
Contaminated packaging	Dispose of as unused product

14) Transport information

UN number, Proper Shipping Name, Transport Hazard Class, packing group

	US DOT	ADR/RID:	IMDG:	IATA
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UN Number	3462	3462	3462	3462
UN proper shipping name	Toxins, extracted from living sources, solid, n.o.s. (Aflatoxicol)	Toxins, extracted from living sources, solid, n.o.s. (Aflatoxicol)	Toxins, extracted from living sources, solid, n.o.s. (Aflatoxicol)	Toxins, extracted from living sources, solid, n.o.s. (Aflatoxicol)
Transport Hazard Class & Packing Group	6.1 Pg III	6.1 Pg III	6.1 Pg III	6.1 Pg III

15) Regulatory information

Safety, health and environmental regulations/legislation

USA EPA / TSCA	This product is not listed on the USA EPA TSCA
EU ECHA Status	This product is not registered with the EU ECHA
CA: DSL/NDSL Status	This product is not listed on the Canadian DSL/NDSL

16) Other information

Date of revision: 03 September 2017

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.

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End of SDS



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