

Safety Data Sheet: Withaferin A

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

Product identifiers					
Product name	e Withaferin A		Formula		C28H38O6
Product Code	WT		RTECS		KE7288500
CAS #	5119-4	8-2	Molecular	weight	470.60
EC Number #	Number # N.A.				
Intended uses of the substance or mixture and uses advised against					
Intended use			Uses advised against:		
For Research and/or Development; Laboratory chemicals, Manufacture of substances To be used by trained scientists only.			,	Not for drug, Not to be used in humans or animals. Not food additive	
Details of the supplier of the safety data sheet		heet	Emergen	cy Telephone number	
FERMENTEK Itd 4 Yatziv street, POB 4 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					

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.

Section 2. Hazards identification

Classification of the substance or mixture

This mixture is classified as NOT hazardous according to regulation (EC) 1272/2008 [GHS]

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

This chemical is NOT considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS Label elements, including precautionary statements

Pictogram: {None} Signal word: {None}

Hazard statements	Not applicale
Precautionary statements	Not applicale

Section 3. Composition/information on ingredients

Substance	
Substance name:	Withaferin A
	CAS Registry #: 5119-48-2 EC#: N.A.
	Molecular Formula: C28H38O6 ; Molecular weight: 470.60
	Concentration: ≤ 100%
Mixture	Not mixture.

Section 4. First Aid Measures

Description of First Aid Measures

General advice:Consult a physician if necessary. Show this safety data sheet to the doctor in attendanceEye contact:Flush with plenty of water.

Yatziv St. P.O.B. 47120 Jerusalem 9780046 Israel

Page 1 of 4

el: 972-2-5853953 • Fax: 972-2-5853943 • Website: www.fermentek.com



Skin Contact:	Wash off with soap and water while removing all contaminated clothes and shoes.
Ingestion:	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. Clean mouth with water and drink afterwards plenty of water.
Inhalation:	If inhaled, remove to fresh air. If not breathing or breathing is difficult, give artificial respiration. Consult a physician.
Self-protection of the first aider:	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.
Note to physicians:	Not applicable.
	themselves and prevent spread of contamination.

Section 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	As in any fire, wear self-contained breathing apparatus for fire fighting. Wear protective suit.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation, especially in confined areas. Avoid formation of dust. Use personal protective equipment as required. Keep people away from and upwind of spill/leak.	
For emergency responders	Use personal protection recommended in Section 8	
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	

N

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.

Section 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, Protect from sunlight. Protect from moisture	
Incompatible materials:	None known based on information available.	

Section 8. Exposure Controls/Personal Protection

No occupational exposure limits are listed for this material.

Exposure Limits:	None known, based on information available.	
	OSHA Permissible Exposure Limits	No Data Available
	NIOSH Recommended Exposure Limits	No Data Available
	ACGIH Threshold Limit Values	No Data Available



4 Yatziv St. P.O.B. 47120 Jerusalem 9780046 Israel

Page 2 of 4

Tel: 972-2-5853953 • Fax: 972-2-5853943 • Website: www.fermentek.com



Exposure controls	
Engineering Controls	Showers, Eyewash stations, Ventilation systems
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.
[PPE=Personal Protection 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 Eye/face protection	Wear safety glasses with side shields (or goggles). Optional face mask.
PPE Skin and Body Protection	Wear protective gloves and protective clothing.
PPE Respiratory Protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Section 9. Physical and chemical properties

Physical / chemical properties

Physical State at room temperature	Crystalline Solid or powder	
Color	White to off-white or slightly yellow	
Melting/freezing point	241°C-246°C	
No further safety relevant data are available		

Section 10. Stability and reactivity

Melting/freezing point	
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:	Carbon oxides.

Section 11. Toxicological information

Information on toxicological effects

The toxicological effects of this product have not been thoroughly studied.		
Acute Toxicity		
Ingestion	No data available	
Inhalation	No data available	
Serious eye damage/eye irritation:	No data available	
Skin corrosion/irritation:	No data available	
STOT (specific target organ toxicity)	No data available	
Respiratory or skin sensitization:	No data available	
Germ cell mutagenicity:	No data available	
Carcinogenicity	 IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. 	





D. N. a second of this was due to was sub at lough success they

	NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
	OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity / Teratogenicity:	No data available
Aspiration hazard:	No data available
Additional information:	RTECS: <i>KE7288500</i> This compound has been reported to have mutagenic properties in vitro using cancer cell culture as a target.

Section 12. Ecological Information

Eco-Toxicity	May cause long lasting harmful effects to aquatic life.
Other adverse effects	No further relevant information available.
Persistence and degradability	No information available
Bioaccumulation	No information available
Mobility in soil	No information available
PBT and vPvB assessment	No information available

Section 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 Do not reuse container.

Section 14. Transport information

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

	US DOT	ADR/RID:	IMDG:	IATA
UN Number UN proper shipping name	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
Transport Hazard Class & Packing Group	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods

Section 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

Section 16. Other information

Date of revision: Sunday, 7 July, 2019

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.



