

Safety Data Sheet: Parthenolide

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

Product identifiers			
Product name	Parthenolide	EC Number #	692-532-0
Product Code	P	Formula	C ₁₅ H ₂₀ O ₃
CAS #	20554-84-1	RTECS	LY4220000
		Mol.Weight	248.32

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	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

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
This substance is not classified as dangerous according to Directive 67/548/EEC.

2.2 Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3 Other hazards - none

Section 3. Composition/information on ingredients

3.1 Substance	
Substance name:	Parthenolide
	CAS Registry #:20554-84-1 EC#: 692-532-0
	Molecular Formula: C ₁₅ H ₂₀ O ₃ Molecular Weight: 248.32
3.2 Mixture:	
	Not mixture.

Section 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
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration
In case of skin contact	Wash off with soap and plenty of water
In case of eye contact	Flush eyes with water as a precaution
If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water

4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

4.3 Indication of any immediate medical attention

no data available

Section 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
5.2 Hazardous combustion products	Carbon oxides,
5.3 Advice for firefighters	Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit.

Section 6. *Accidental release measures*

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Avoid dust formation. Avoid breathing vapors, mist or gas.

6.2 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

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.

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*

7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Keep out of the reach of children.

Store at -20 °C.

Section 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

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

General industrial hygiene practice

Engineering Controls

Showers, Eyewash stations, Ventilation systems



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-Eye/face protection	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
PPE-Skin /Hand protection	Handle with gloves. Gloves must be inspected prior to use 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 EU Directive 89/686/EEC and the standard EN 374 derived from it.
PPE-Body Protection	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace
PPE-Respiratory protection	Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9. Physical and chemical properties

Physical / chemical properties

Physical State at room temperature	Solid / crystalline powder
Color	white
Melting/freezing point	110°C-125°C (experimental)
Volatile Component (%vol)	Negligible
VOLATILE?	NO
No further safety relevant data are available	

Section 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,

Section 11. Toxicological information

11.1 Information on toxicological effects

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

Acute Toxicity	The toxicological effects of this product have not been thoroughly studied. No significant acute toxicological data identified in literature search. or RTECS record. One source showed data: Mouse, Oral, TDL11.1 (mouse): 50 mg/kg, without support.
Skin corrosion/irritation:	No data available
Serious eye damage/eye irritation:	No data available
Respiratory or skin sensitization:	No data available
Germ cell mutagenicity:	Laboratory experiments have shown mutagenic effects





Carcinogenicity:	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
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
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.
Additional information:	RTECS: LY4220000

Section 12. Ecological Information

12.1 Eco-Toxicity	No further relevant information available
12.2 Other adverse effects	No further relevant 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

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 for transport (Parthenolide)	Not dangerous for transport (Parthenolide)	Not dangerous for transport (Parthenolide)	Not dangerous for transport (Parthenolide)
Transport Hazard Class & Packing Group	Not regulated	Not regulated	Not regulated	Not regulated

Section 15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 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
15.2 Chemical Safety Assessment	No data available

Section 16. Other information

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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.

End of SDS

