FERMENTEK ltd
Making Fine Biochemicals

Safety data sheet **Thapsigargicin**

1. Identification of the Substance and of the Manufacturer

1.1. Product identifiers

Product name	***Thapsigargicin***	Formula	$C_{32}H_{46}O_{12}$
Product Code	*THS*	RTECS	*Not available as at 10-2022*
CAS #	***67526-94-7***	Molecular weight	*747.07*
EC Number #	***636-165-6***	Substance? Mixture?	*Substance*
Source	*Thapsia garganica (Plant)*		
		Date of version	*20 October, 2024*

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

1.2.1. *Intended use:*	1.2.2. *Uses advised against:*
• Research and development. • Laboratory reagent. • To be used by professionals only	• Not for drug, • Not to be used in humans or animals. • Not food additive

1.3. Details of the Manufacturer

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

2. Hazards' identification

2.1. Classification of the substance or mixture

2.1.1. *GHS Classification According to EU Reg. 1272/2008 and US OSHA 1910.1200)*

Not classified, not hazardous material based on available information

2.2. GHS Label elements, including precautionary statements

2.2.1. *Pictogram: : {None}*

Not classified, not hazardous material based on available information

2.2.2. *Signal word: {None}*

2.2.3. *Hazard Statements: {None}*

2.2.4. *GHS Precautionary Statements*

P201	*Obtain special instructions before use.*
P202	*Do not handle until all safety precautions have been read and understood.*
P261	*Avoid breathing dust/fume/gas/mist/vapours/spray*
P264	*Wash face, hands and any exposed skin thoroughly after handling*
P270	*Do not eat, drink or smoke when using this product*
P330	*Rinse mouth*

3. Composition/information on ingredients

Substance		
Substance name:	Thapsigargicin	
Concentration	<=100%	
CAS Registry#:	67526-94-7	
EC#:	636-165-6	
Molecular Formula:	$C_{32}H_{46}O_{12}$	
Molecular Weight:	747.07	
Classification	Not classified, not hazardous material based on available information	
Mixture?	Substance.	

4. First Aid Measures

4.1. Description of First Aid Measures

General advice:	
Eye contact:	Flush eyes with water as a precaution.
Skin Contact:	Wash off with soap and plenty of water.
Ingestion:	Never give anything by mouth to an unconscious person. Wash out mouth with water.
Inhalation:	Remove to fresh air. If not breathing, give artificial respiration.

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

General symptoms	Cough, Shortness of breath, Headache, Nausea, Vomiting, Dermatitis, Dizziness, Anorexia., Gastrointestinal disturbance, Fever

4.3. Indication of any immediate medical attention and special treatment needed

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

5.2. Other information

Hazardous combustion products	Carbon oxides, Nitrogen oxides (NOx).
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	Use personal protective equipment as required. Keep people away from and upwind of spill/leak.

6.2. Environmental precautions

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

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.*

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.*
Suitable packaging	*Must only be kept in original 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*

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.*

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 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*
Color	

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 exidizers*
Possibility of Hazardous Reactions	*None under normal processing*
Hazardous decomposition products	*Hazardous decomposition products formed under fire conditions.: Carbon oxides*

11. Toxicological information

11.1. Information on toxicological effects

To the best of our knowledge, the toxicological effects of this product have not been thoroughly studied yet.

11.1.1. Acute Toxicity

Oral toxicity estimate:	*No data available*
Serious eye damage	*No data available*
Respiratory or skin sensitization/corrosion:	*No data available*

11.1.2. CRM (Carcinogene, Mutagene, Reproductive hazards)

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*

11.2. Additional information

Comments	*"Dose limiting cardiac toxicity" was reported for this compound, but neither route nor quantitative toxicity was specified.*
RTECS number	*N.A.*

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	Not dangerous for transport (Thapsigargicin)	Not dangerous for transport (Thapsigargicin)	Not dangerous for transport (Thapsigargicin)	Not dangerous for transport (Thapsigargicin)
Transport Hazard Class & Packing Group	Not regulated	Not regulated	Not regulated	Not regulated
			Not marine polutant	

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation

USA EPA / TSCA	This product is not listed on the USA EPA TSCA (it is for research)
SARA 313	This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.
SARA 311/312 Hazard Categories	Acute health hazard: No
California Proposition 65	This product does not contain any Proposition 65 chemicals.
EU ECHA Status	This product is listed with the EU ECHA, Number 636-165-6 ANNEX III (criteria for 1 - 10 tonne registered substances): Not Listed REACH: Not Preregistred

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:

Some other vendors have stated this product may occur Harmful if swallowed, if in contact with skin or inhaled. We did not find any satisfactory support for these statements

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. Copyright statement

16.7. End of SDS