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1. Identification of the Substance and the Manufacturer

1.1. Product identifiers

Product name	<u>Thapsigargin</u>	Formula	<i>C</i> 3	4H50O12
Product Code	THP	Molecular weig	ht 67 0	0.75 g/mol
CAS#	67526-95-8	Mixture?	Su	bstance
ECHA#	<u>614-076-3</u>	<u>PUBCHEM</u>	440	<u>6378</u>
<u>HSDB</u>		<u>RTECS</u>	-R	Н0352700
Comptox EPA	<u>5040621</u>	<u>CHEBI</u>	<u>CH</u>	IEBI:9516
Synonyms and	• Thapsigargin			
other names	• Octanoic acid, (3S,3aR,4S,6S,6aR,7S,8S,9bS)-6-(acetyloxy)-2,3,3a,4,5,6,6a,7,8,9b-decahydro-3,3a-dihydroxy-3,6,9-trimethyl-8-(((2Z)-2-methyl-1-oxo-2-butenyl)oxy)-2-oxo-4-(1-oxobutoxy)azuleno(4,5-b)furan-7-yl ester			
Source	From:Thansia Garganica (I	Plant) Ve.	rs Date	15 August, 2024

1.2. Intended uses of the Substance and uses advised against

1.2.1. Intended use:	1.2.2. Uses advised against:
Research and development.	Not a drug,
Laboratory reagent.	Not a food additive
Reference material.	Not to be used in humans or animals.
Manufacturing of substances.	
To be used by professionals only	

1.3. Contacts

1.3.1.	Details	of the	supplier	of the	CDC
1.5.1.	Detaus	oi ine	subbuer	oi ine	סטס

FERMENTEK ltd	<i>Tel:</i> +972 2 5	853953
4 Yatziv street, POB 47120	Fax: +972 2 3	5853943
Jerusalem 97800,	eMail:	Fermentek@Fermentek.com
Israel		Safety@Fermentek.com
	Website:	Fermentek.com

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

1.3.2. 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

















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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)

To our judgement, hazards of this substance have not been thoroughly investigated Other suppliers have classified this substance as H300, H310, H330 (Fatal if swallowed, inhaled or in contact with skin, and H350 may cause cancer. To our opinion, these claims are not proven sufficiently. Some closely related substances are highly hazardous. Therefore, we recommend handling all chemicals with caution.

Accute toxicity: Oral	Category 2	H300	Fatal if swallowed
Skin corrosion/irritation	Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation	Category 1	H318	Causes serious eye damage

2.2. GHS Label elements, including precautionary statements

2.2.1. Pictogram: { Signal word: {Danger}

2.2.2. Hazard Statements

H300	Fatal if swallowed
H315	Causes skin irritation
Н318	Causes serious eye damage

2.2.3. GHS Precautionary Statements

<i>2</i>	
P201	Obtain, read and follow all safety instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust or mist.
P264	Wash {hands} thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection

2.2.4. GHS Response Phrases:

Н300	Fatal if swallowed
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/
P330	Rinse mouth.
P302+P352,	IF ON SKIN: wash with plenty of water.
P332+P313	IF SKIN irritation occurs: Get medical advice/attention.
P362	Take off contaminated clothing.















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P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P337+P313	IF eye irritation persists: Get medical advice/attention.

3. Composition/information on ingredients

Substance	
Substance Name:	Thapsigargin
Concentration	<=100%
CAS Registry#:	67526-95-8
EC#:	614-076-3
Molecular Formula:	C34H50O12
Molecular Weight:	670.75 g/mol
Classification	Acc O:3 (H301)
Mixture?	Substance

4. First Aid Measures.

4.1. Description of First Aid Measures.

General advice:	First-aiders need to protect themselves. If medical attention is required, show this safety data sheet to the doctor in attendance.
Eye contact:	Rinse out with plenty of water. Remove contact lenses.
Skin Contact:	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.
Ingestion:	If swallowed: give water to drink (two glasses at most). Seek medical advice immediately.
Inhalation:	If inhaled, move the person into fresh air.

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

General symptoms <u>See section 11</u>

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

Note to physicians No data available

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















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Prevent further leakage or spillage if safe to do so. Cover the powder spill

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Carbon oxides, Nitrogene oxides, Sulfur oxides, Sulfur dihydrogene, Hazardous combustion Formula C34H50O12 products Wear self-contained breathing apparatus for fire fighting if necessary. Advice for firefighters Wear protective suit.

Accidental release measures **6.**

6.1. Personal precautions, protective equipment, and emergency procedures

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Methods for containment: with a plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal. Clean-up should be dealt with only by qualified personnel familiar with *Methods for cleaning up:* the specific substance. Cover liquid spill with sand, earth or other noncombustible absorbent material (e.g., sand, earth, diatomaceous earth, and vermiculite). Cover the powder spill with a 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

Avoid contact with skin, eyes or clothing. Use personal protective Advice on safe handling: 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. Must only be kept in original packaging. Suitable packaging Incompatible materials: None known based on information available.

Exposure Controls/Personal Protection 8.

Attiention:

















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Usually, the product of concern would be present at the intended workplace in miniscule amounts, while surrounded by considerable amounts of other flammable, toxic or otherwise hazardous substances. Therefore, a risk assessment should be performed by the employer/user prior to the use of this product.

The type of protective equipment must be selected based on the amount and concentration of all dangerous materials being used in the workplace.

All recommendations included in this document are advisory in nature

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 fume-hood 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 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. 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.















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Physical and chemical properties 9.

9.1. Physical/chemical properties

Physical State at room

Solid

temperature

Appearance

Powder, White

No further safety relevant data are available

Stability and reactivity 10.

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

None under normal processing

Reactions

Hazardous combustion

See section 5

products

Toxicological information *11*.

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

Acute toxicity:	Subcutaneous, Mouse, LD50= 2 mg/kg; Oral, mouse, LD50 10 to 20 mg/kg Estimated from subcutaneous datum No other acute toxicity available.
Skin corrosion/irritation:	Irritation reported by manufacturer
Serious eye damage/eye irritation:	Irritation reported by manufacturer
Respiratory or skin sensitization/corrosion:	No data available

11.1.2. Chronic toxicity

No data available Chronic toxicity

11.1.3. CRM (Carcinogene, Mutagene, Reproductive hazards)

Germ cell mutagenicity:	No data available
Carcinogenicity:	Not classified by IARC
Reproductive toxicity /	No data available
Teratogenicity:	

Additional information *11.2.*

-RH0352700 RTECS number

















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General symptoms

Ecological Information *12*.

No data available **Eco-Toxicity** No data available Other adverse effects

Disposal Considerations *13*.

13.1. Waste treatment methods

Waste Disposal 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

UN 3462: Toxins, Extracted from Living Sources, Solid, N.O.S. UN Number UN proper shipping (Thapsigargin) Transport Hazard Class Class 6.1 (Poison); Packing group II & Packing Group

Regulatory information *15*.

15.1. Safety, health, and environmental regulations/legislation

	8
USA EPA / TSCA	This product is not listed on the USA EPA TSCA (it is for research)
EU ECHA Status	This product is registered with the EU ECHA, Number Error! Reference source not found. REACH: PreRegistered ANNEX III (criteria for 1 - 10 tonne registered substances): Listed Reasons for listing: a) Suspected hazardous to the aquatic environment. b) Suspected persistent in the environment.

Other information *16.*

16.1. Version information

New Toxicity information obtained. Packing group updated Version date: 8-2024

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.















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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 explicitly specified in the text.

16.4. The users'/employers' responsibility:

Usually, the product of concern would be present at the intended workplace in miniscule amounts, while surrounded by considerable amounts of other flammable, toxic or otherwise hazardous substances. Therefore, a risk assessment should be performed by the employer/user prior to the use of this product.

The type of protective equipment must be selected based on the amount and concentration of all dangerous materials being used in the workplace. All recommendations included in this document are advisory in nature.

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16.6. Abbreviations and acronyms:

Acute toxicity Chemical Abstracts Service CompTox Chemicals Dashboard Resource Hub (EPA) US Department of Transportation
CompTox Chemicals Dashboard Resource Hub (EPA)
•
US Department of Transportation
European Chemicals Agency
European Inventory of Existing Commercial Chemical Substances
United States Environmental Protection Agency
Serious eye damage/eye irritation
Hazardous Substances Data Bank
Hazardous Materials Identification System (USA)
International Air Transport Association
International Maritime Code for Dangerous Goods
Lethal concentration, Median
Lethal dose, Median
Letal dose, leatst published
Not dangerous goods (for transport)
National Fire Protection Association USA
National Institute for Occupational Safety
Occupational Safety & Health
Persistent, Bioaccumulative, and Toxic
Permissible Exposure Limit
Recommended Exposure Limit
Reproductive toxicity
Registry of Toxic Effects of Chemical Substances
Skin corrosion/irritation
Specific target organ toxicity/Single exposure
Specific target organ toxicity/Repeated exposure
Toxin and Toxin Target Database
Toxic dose, least published

16.7. *End of SDS*







