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1. Identification of the Substance and the Manufacturer

1.1. Product identifiers

1.2. Intended uses of the Substance and uses advised against

Product name	<u>Verrucarin-J</u>	Formula		С29Н40О9
Product Code	VRJ	Molecular v	veight	502.5 g/mol
CAS#	4643-58-7	Mixture?		Substance
<u>ECHA</u> #	ЕСНА	PUBCHEM		<u>12444784</u>
		<u>RTECS</u>		-YX9822000 -
Comptox EPA	<u>10891820</u>	<u>CHEBI</u>		<u>CHEBI:184115</u>
Synonyms and other names	Verrucarin A 2',3'-didehydro- 2'-deoxy-	Muconomycin	B	Verrucosporin J
	(4S,5R,10E,12Z,16R,16aS,17S,18R,19aR,23aR)-4,5,6,7,16,16a,19a,22-Octahydro-4- hydroxy-5,16a,21-trimethylspiro[16,18-methano-1H,3H,23H- [1,6,12]trioxacyclooctadecino[3,4-d][1]benzopyran-17(18H),2'-oxirane]-3,9,14-trione			
Source	From: Myrothecium sp.		Vers Date	20 October, 2024

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 SDS	
FERMENTEK ltd	<i>Tel:</i> +972 2 5853953
4 Yatziv street, POB 47120	<i>Fax:</i> +972 2 5853943
Jerusalem 97800,	eMail: <u>Fermentek@Fermentek.com</u>

eMail: <u>Fermentek@Fermentek.com</u> <u>Safety@Fermentek.com</u> Website: Fermentek.com

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



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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)

Accute toxicity: Oral	Category 2	H300	Fatal if swallowed (based on estimate)
Accute toxicity: Dermal	Category 2	H310	\mathbf{X} Fatal in contact with skin(based on estimate)
Accute toxicity: Inhalation	Category 2	H330	\mathbf{X} Fatal if inhalled(based on estimate)
★Copied from PUBCHEM without supporting data			

2.2. GHS Label elements, including precautionary statements.

} Signal word: {Danger} 2.2.1. Pictogram: { Hazard Statements 2.2.2. H300 Fatal if swallowed H301 Toxic if swallowed H302 Harmful if swallowed H350 May cause cancer(based on estimate) 2.2.3. GHS Precautionary Statements P203 Obtain, read and follow all safety instructions before use. 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: P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/ P330 Rinse mouth. P302+P350 IF ON SKIN: Gently wash with plenty of soap and water. P310 Immediately call a POISON CENTER or doctor/physician. P361 *Take off immediately all contaminated clothing.* P363 Wash contaminated clothing before reuse.



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P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310	Immediately call a POISON CENTER or doctor/physician.
P308+P313	IF exposed or concerned: Get medical advice/attention.
3. Composition/info	ormation on ingredients
Substance	
Substance Name:	Verrucarin-J
Concentration	<=100%
CAS Registry#:	4643-58-7
<i>EC</i> #:	ECHA
Molecular Formula:	C29H40O9
Molecular Weight:	502.5 g/mol
Classification	Acc 0:3 (H301)
Mixture?	Substance
4. First Aid Measures.	
4.1. Description of First	t Aid Measures.
Conoral advisos	First aiders need to protect themselves

General advice:	First-aiders need to protect themselves.	
	If medical attention is required, show this safety data sheet to the doctor in attendance.	
Ingestion:	If swallowed: give water to drink (two glasses at most). Seek medical advice immediately.	

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 physiciansNo 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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5.2. Other information

<i>J.2. Other injormation</i>			
Hazardous combustion products	Carbon oxides, C29H40O9		
Advice for firefighters	<i>Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit.</i>		
6. Accidental release measures			
6.1. Personal precautions,	protective equipment, and emergency procedures		
-	<i>Jse personal protective equipment as required. Keep people away from and upwind of spill/leak.</i>		
6.2. Environmental preca	utions		
~	Prevent further leakage or spillage if safe to do so. Prevent product from ntering drains.		
6.3. Methods and material	l for containment and cleaning up.		
и	Prevent further leakage or spillage if safe to do so. Cover the powder spill with a plastic sheet or tarp to minimize spreading. Dike far ahead of iquid spill for later disposal.		
ti c a m	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 the powder spill with a plastic sheet or tarp to pinimize spreading. Sweep up and shovel into suitable containers for lisposal.		
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 Conditions:Keep container tightly closed in a dry and well-ventilated place.
Keep out of the reach of children.
Store at -20 °C.Suitable packagingMust only be kept in original packaging.



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Incompatible materials: None known based on information available.

8. Exposure Controls/Personal Protection

Attiention:

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, the employer/user should perform a risk assessment 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

L		
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.	
9.3 Porsonal protective equipment		

8.1. Control parameters

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)



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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

The information given here does not purport specification of warranty of any kind. It 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.

9.1. Physical/chemical properties

Physical State at room temperature Solid

Appearance

White to faint yellow powder

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 combustion products	See section 5	



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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

Acute toxicity:	< estimate > Oral, Mouse, LD50= 5.1 Intravenous , Mouse, LD50=0.7 mg/kg		
	Intraperitoneal, Mouse, LD50=0.5 mg/kg		
	No other acute toxicity available.		
Skin corrosion/irritation:	No data available		
Serious eye damage/eye irritation:	No data available		
Respiratory or skin sensitization/corrosion:	No data available		
11.1.2. Chronic toxicity			
Chronic toxicity	No data available		
11.1.3. CRM (Carcinogene, Mutag	ene, Reproductive hazards)		
Germ cell mutagenicity:	No data available		
Carcinogenicity:	Not classified by IARC		
<i>Reproductive toxicity / Teratogenicity:</i>	No data available		
11.2. Additional information			
RTECS number.	-YX9822000 -		
General symptoms	Skin And Appendages (Skin): Dermatitis, Other: After Systemic Exposure		
12. Ecological Informat	ion		
Eco-Toxicity	No data available		
Other adverse effects	No data available		
13. Disposal Considerate	ions		
13.1. Waste treatment method	ds.		
Waste Disposal	Dispose of in accordance with local regulations		
Contaminated packaging	Dispose of as unused product		
<			



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14. Transport information

14.1. UN Number, Proper Shipping Name, Transport Hazard Class, packing group

	IATA	IMDG	ADR/RID	US/DOT
UN Number, Proper shipment name	UN 3462 Toxins, extracted from living sources, solid, n.o.s. (Verrucarin-J)	UN 3462 Toxins, extracted from living sources, solid, n.o.s. (Verrucarin-J)	UN 3462 Toxins, extracted from living sources, solid, n.o.s. (Verrucarin-J)	UN 3462 Toxins, extracted from living sources, solid, n.o.s. (Verrucarin-J)
Transport hazard Class, Packing group	6.1 poison Packing group PGII			
Comments		Not marine polutant		

15. Regulatory information

15.1. Safety, health, and environmental regulations/legislation

USA EPA / TSCAThis product is not listed on the USA EPA TSCA (it is for research)EU ECHA StatusThis product is registered with the EU ECHA, Number ECHA REACH: Neither Registered nor PreRegistered. ANNEX III (criteria for 1 - 10 tonne registered substances): Not Listed		
REACH: Neither Registered nor PreRegistered.	USA EPA / TSCA	This product is not listed on the USA EPA TSCA (it is for research)
	EU ECHA Status	



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16. Other information

16.1. Version information

Version date:8-2024

16.2. 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.

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, the employer/user should perform a risk assessment by 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.

16.5. No © copyright



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16.6. End of SDS



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Appendix A : Abbreviations and acronyms:

<u> </u>	A A Mobieviations and actoryms.		
<u></u>	This symbol means, the text looking like a hyperlink, is a clickable link indeed. Of course, these are only active on glass screens, not on paper.		
Synthetic / From	<i>"Synthetic"</i> means this compound has been manufactured by chemical conversion of another product of ours.		
	<i>"From"</i> means the compound was extracted from biomass, whther algal, fungal, microbial or plant material		
Mixture/Substance	<i>Mixture</i> means there are two or more <i>pure substances</i> mixed purposely.		
	Not including cases of two or more substances which naturally occur together and are sold unseparated		
Acute Tox.:	Acute toxicity		
CAS:	Chemical Abstracts Service		
ChEBI	Chemical Entities of Biological Interest		
Comptox	CompTox Chemicals Dashboard Resource Hub (EPA)		
DOT:	US Department of Transportation		
ECHA	European Chemicals Agency		
EINECS:	European Inventory of Existing Commercial Chemical Substances		
EPA	United States Environmental Protection Agency		
Eye Dam.:	Serious eye damage/eye irritation		
HSDB	Hazardous Substances Data Bank		
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		
LDLO	Lethal dose, least published		
NDG	Not dangerous goods (for transport)		
NFPA:	National Fire Protection Association USA		
NIOSH:	National Institute for Occupational Safety		
NOAEL	No-Observed-Adverse-Effects-Level. Highest dose which yielded no results at toxicity test		
OSHA:	Occupational Safety & Health		
PBT:	Persistent, Bioaccumulative, and Toxic		
PEL:	Permissible Exposure Limit		
PubChem	An open chemistry database at the National Institutes of Health (NIH). "		
REL:	Recommended Exposure Limit		
Repr.:	Reproductive toxicity, incl. hazards to reproductive systems, and pregnancy and the offspring.		
RTECS:	Registry of Toxic Effects of Chemical Substances. Not free.		
Skin Irrit:	Skin corrosion/irritation		
STOT/SE	Specific target organ toxicity/Single exposure		
STOT/RE	Specific target organ toxicity/Repeated exposure		
T3DB	Toxin and Toxin Target Database		
TDLO	Toxic dose, least published		

