



**Safety
Data Sheet**

Veratridine

Sections



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SDS Veratridine vers 8-2024

Page 1 of 10

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	Veratridine	Formula	$C_{36}H_{51}NO_{11}$
Product Code	VER	Molecular weight	673.79 g/mol
CAS#	71-62-5	Mixture?	Substance
ECHA#	200-758-4	PUBCHEM	Veratridine
HSDB	HSDB 4078	RTECS	YX5600000
		T3DB#	T3D4061
Comptox EPA	2058467	CHEBI	CHEBI:28051
Synonyms and other names	Veratrine	3-Veratroylveracevin	
	4,9-Epoxycevan-3-beta,4-beta,12,14,16-beta,17,20-heptol 3-veratrate		
Source	From: Schoenocaulon officinale (Plant)	Vers Date	20 October, 2024

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

1.3. Contacts

1.3.1. Details of the supplier of the SDS	
FERMENTEK ltd 4 Yatziv street, POB 47120 Jerusalem 97800, Israel	Tel: +972 2 5853953 Fax: +972 2 5853943 eMail: Fermentek@Fermentek.com 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



**Safety
Data Sheet**

Veratridine

Sections



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SDS Veratridine vers 8-2024

Page 2 of 10

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)

Acute Toxicity, Oral	Cat. 2	H300	Fatal if swallowed
Acute Toxicity, Dermal	Cat. 2	H310	△Fatal in contact with skin
Acute Toxicity, Inhalation	Cat. 2	H330	△Fatal if inhaled
STOT SE	Cat. 3	H335	△May cause respiratory irritation
Skin Irritation	Cat. 2	H315	△Causes skin irritation
Eye Irritation	Cat. 2	H319	△Causes serious eye irritation

△: Copied from PUBCHEM without any supporting data

2.2.GHS Label elements, including precautionary statements

2.2.1. Pictogram: {  } Signal word: {Danger}

2.2.2. Hazard Statements

H300	Fatal if swallowed
H310	Fatal in contact with skin
H330	Fatal if inhaled
H335	May cause respiratory irritation
H315	Causes skin irritation
H319	Causes serious eye irritation

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+P330+P331:	IF SWALLOWED: Get emergency medical help immediately.
P316:	Rinse mouth. Do NOT induce vomiting.
P302+P352, P316,	IF ON SKIN: wash with plenty of water Get emergency medical help immediately.





**Safety
Data Sheet**

Veratridine

Sections



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SDS Veratridine vers 8-2024

Page 3 of 10

P361+P364	P362+P364: Take off contaminated clothing and wash it before reuse.
P304+P340, P316,	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get emergency medical help immediately.
P318	If exposed or concerned, get medical advice.

3. Composition/information on ingredients

Substance	
Substance Name:	Veratridine
Concentration	<=100%
CAS Registry#:	71-62-5
EC#:	200-758-4
Molecular Formula:	C ₃₆ H ₅₁ NO ₁₁
Molecular Weight:	673.79 g/mol
Classification	Acute Tox. 2 (H300,H310,H330),Irit 2,
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.
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	See section 11
------------------	--------------------------------

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

5.2. Other information

Hazardous combustion products	Carbon oxides, Nitrogene oxides C ₃₆ H ₅₁ NO ₁₁
-------------------------------	---





Veratridine



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 the powder spill with a 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 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

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

Attention:

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

8.1. Control parameters

Control parameters	Components with workplace control parameters
--------------------	--

8.2. Exposure controls

Appropriate engineering controls	<p>Showers, Eyewash stations, Ventilation systems</p> <p>Avoid contact with skin, eyes, and clothing.</p> <p>Wash hands before breaks and immediately after handling the product.</p> <p>Use fume-hood for routine work.</p>
----------------------------------	--

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)





**Safety
Data Sheet**

Veratridine

Sections



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SDS Veratridine vers 8-2024

Page 6 of 10

**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

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 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 oxidizers

Possibility of Hazardous
Reactions None under normal processing

Hazardous combustion products See section 5

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=15 mg/kg
Intraperitoneal, Rat, LD50= 3.5 mg/kg
Intraperitoneal, Mouse, LD50=1.4 mg/kg
Subcutaneous, Mouse, LD50=6.3 mg/kg
Oral, Bird(Chicks), LD50= 25 mg/kg □
No other acute toxicity available.

Skin corrosion/irritation: No data available





**Safety
Data Sheet**

Veratridine

Sections



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SDS Veratridine vers 8-2024

Page 7 of 10

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, Mutagene, Reproductive hazards)

Germ cell mutagenicity: No data available

Carcinogenicity: Not classified by IARC

Reproductive toxicity / Teratogenicity: No data available

11.2. Additional information

RTECS number YX5600000

General symptoms Signs of poisoning with veratrine and related alkaloids are salivation, purgation, vomiting (even in the cow), diuresis, excitability followed by prostration, weak and irregular pulse, deep and slow respirations, and death in convulsions or consequently upon paralysis. The lethal dose of the fresh root is 1 g/kg in the horse and 2 g/kg in the cow.

12. Ecological Information

Eco-Toxicity No data available

Other adverse effects No data available

13. Disposal Considerations

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

	IATA	IMDG	ADR/RID	US/DOT
UN Number, Proper shipment name	UN 3462 Toxins, extracted from living sources, solid, N.O.S. (Veratridine)	UN 3462 Toxins, extracted from living sources, solid, N.O.S. (Veratridine)	UN 3462 Toxins, extracted from living sources, solid, N.O.S. (Veratridine)	UN 3462 Toxins, extracted from living sources, solid, N.O.S. (Veratridine)





**Safety
Data Sheet**

Veratridine

Sections



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SDS Veratridine vers 8-2024

Page 8 of 10

Transport hazard Class, Packing group	6.1 poison PG2	6.1 poison PG2	6.1 poison PG2	6.1 poison PG2
Comments		Not marine pollutant		

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)
EU ECHA Status	This product is registered with the EU ECHA, Number 200-758-4 REACH: PreRegistered. ANNEX III (criteria for 1 - 10 tonne registered substances): Not Listed





Veratridine



16. Other information

16.1. Version information

Version date: 8-2024

General revision.

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



Fermentek does not claim © copyright on this document.

Fermentek believes that no one can claim copyright on an SDS. This sort of document is but a compendium of common knowledge and published facts.

Fermentek explicitly releases this document into the public domain.

16.6. End of SDS





**Safety
Data Sheet**

Veratridine

Sections




[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#) [13](#) [14](#) [15](#) [16](#)

SDS Veratridine vers 8-2024

Page 10 of 10

Appendix A : Abbreviations and acronyms:

	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	"Synthetic" means this compound has been manufactured by chemical conversion of another product of ours. "From" means the compound was extracted from biomass, whether algal, fungal, microbial or plant material
Mixture/Substance	Mixture means there are two or more pure substances 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	Letal 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

