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## 1. Identification of the Substance and the Manufacturer

## 1.1. Product identifiers

Product name	<u>Prodigiosin HCl</u>	Formula	C20H25N3O HCl
Product Code	PRD	Molecular weight	158.11 g/mol
CAS#	<u>56144-17-3</u>	Mixture?	Substance
ECHA#	Not listed as 8-2024	<u>PUBCHEM</u>	<u>136179593</u>
CHEBI	<u>82758</u>	<u>RTECS</u>	<u>DW2977000</u>
~			

Synonyms and	Prodigiosin hydrochloride		
other names	4-Methoxy-5-((5-methyl-4-pentylhydrochloride	l-2H-pyrrol-2-ylidene)meth	yl)-1H,1'H-2,2'-bipyrrole

Source	From: Serratia marcescens	Vers Date	15 October,
			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 SDS

FERMENTEK ltd	<i>Tel:</i> +972 2 5853953
4 Yatziv street, POB 47120	<i>Fax:</i> +972 2 5853943
1 07000	Mail: Farmon

Jerusalem 97800, eMail: <u>Fermentek@Fermentek.com</u>

Israel <u>Safety@Fermentek.com</u>

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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- Hazards' identification. *2*.
- Classification of the Substance. 2.1.
- GHS Classification: According to EU Reg. 1272/2008 and US OSHA 1910.1200) 2.1.1.

Toxic if swallowed Accute toxicity: Oral Category 3 H301

- 2.2. GHS Label elements, including precautionary statements
- Pictogram: { Signal word: {Danger} 2.2.1.
- 2.2.2. Hazard Statements

H301 Toxic if swallowed

#### 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.

#### Composition/information on ingredients *3*.

Substance	
Substance Name:	Prodigiosin HCl
Concentration	<=100%
CAS Registry#:	56144-17-3
EC#:	Not listed as 8-2024
Molecular Formula:	C20H25N3O HCl
Molecular Weight:	158.11 g/mol
Classification	Acc O:3 (H301)
Mixture?	Substance

- 4. First Aid Measures.
- Description of First Aid Measures.

General advice: First-aiders need to protect themselves.















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	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	None known
media	

### 5.2. Other information

Hazardous combustion products	Carbon oxides, Nitrogene oxides C20H25N3O HCl
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.















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## 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

#### 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

#### 8.1. Control parameters

Control parameters	Components with workplace control parameters
8.2. Exposure controls	
Appropriate engineering	Showers, Eyewash stations, Ventilation systems
controls	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

[11 L=1 ersonal 1 rotection 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).













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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

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	Powder, DARK RED
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:	Intravenous, Mouse, LD50=10 mg/kg Estimated Oral, Mouse, LD50= 100 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, 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	DW2977000
General symptoms	Endocrine - hypoglycemia

## 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















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## 14. Transport information

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

	IATA	IMDG	USDOT
UN Number, Proper shipment name	UN 3462 Toxins, extracted from living sources, solid, n.o.s. (Prodigiosin HCl)	UN 3462 Toxins, extracted from living sources, solid, n.o.s. (Prodigiosin HCl)	UN 3462 Toxins, extracted from living sources, solid, n.o.s. (Prodigiosin HCl)
Transport hazard Class, Packing group	Class: 6.1 (poison) Packing group III (Prodigiosin HCl)	Class: 6.1 (poison) Packing group III (Prodigiosin HCl)	Class: 6.1 (poison) Packing group III (Prodigiosin HCl)
Comments		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)
EU ECHA Status	This product is Not registered with the EU ECHA, Not listed as 8-2024 REACH: Neither Registered nor PreRegistered.  ANNEX III (criteria for 1 - 10 tonne registered substances): Not Listed

## 16. Other information

## 16.1. Version information

Version date:8-2024 Added acute toxicuty (oral) data. Set category 3, PG III

#### 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.















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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:

	Appendix A: A	Abbreviations and acronyms:		
1.		This symbol means, the text which looks like a hyperlink, is a clickable link indeed. Of course, these are on		
		glass screens, not on paper.		
2.	Synthatic / Fram	"Synthetic" means this compound has been manufactured by chemical conversion of another product of		
3.	Synthetic / From	<b>"From"</b> means the compound was extracted from biomass, whether algal, fungal, microbial or plant mate		
4.	4. 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		
5.	Acute Tox.:	Acute toxicity		
6.	CAS:	Chemical Abstracts Service		
7.	ChEBI	Chemical Entities of Biological Interest		
8.	Comptox	CompTox Chemicals Dashboard Resource Hub (EPA)		
9.	DOT:	US Department of Transportation		
10.	ECHA	European Chemicals Agency		
11.	EINECS:	European Inventory of Existing Commercial Chemical Substances		
12.	EPA	United States Environmental Protection Agency		
13.	Eye Dam.:			
14.	HSDB			
15.	HMIS:	Hazardous Materials Identification System (USA)		
16.	IATA:			
17.	IMDG:	International Maritime Code for Dangerous Goods		
18.	LC50:	Lethal concentration, Median		
19.	LD50:	Lethal dose, Median		
20.	LDLO	Letal dose, leatst published		
21.	NDG	Not dangerous goods (for transport)		
22.	NFPA:	National Fire Protection Association USA		
23.	NIOSH:	National Institute for Occupational Safety		
24.	OSHA:	Occupational Safety & Health		
25.	PBT:	Persistent, Bioaccumulative, and Toxic		
26.	PEL:	Permissible Exposure Limit		
27.	PubChem	An open chemistry database at the National Institutes of Health (NIH). "		
28.	REL:	Recommended Exposure Limit		
29.	Repr.:	Reproductive toxicity, incl. hazards to reproductive systems, and pregnancy and the offspring.		
30.	RTECS:	Registry of Toxic Effects of Chemical Substances. Not free.		
31.	Skin Irrit:	Skin corrosion/irritation		
32.	STOT/SE	Specific target organ toxicity/Single exposure		
33.	STOT/RE	Specific target organ toxicity/Repeated exposure		
34.	T3DB	Toxin and Toxin Target Database		
<i>35.</i>	TDLO	Toxic dose, least published		







