Safety Data Sheet: Prodigiosin Hydrochloride from Fermentek

1. *Identification of the substance/mixture and of the Company*

1.1.*Product identifiers*

Product name	*Prodigiosin Hydrochloride*	**Formula**	$C_{20}H_{25}N_3O \cdot HCl$
Product Code	*PRD*	**RTECS**	***DW2977000***
CAS #	*56144-17-3*	**Molecular weight**	*359.9*
EC Number #	*N.A.*	**Substance? Mixture?**	*Substance*
Synonyms			
		Date of version	*13 June, 2021*

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 supplier of the safety data sheet*

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

1.5.*Reach:*

See section 15

2. *Hazards' identification*

2.1.*Classification of the substance or mixture*

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2.*GHS Label elements, including precautionary statements*

2.2.1. ***Pictogram: {None}***

2.2.2. ***GHS Hazard Statements {None}***

2.2.3. ***GHS Precautionary Statements***

P264	*Wash {hands} thoroughly after handling.*
P270	*Do not eat, drink, or smoke when using this product.*
P280	*Wear {protective gloves/protective clothing/eye protection/face protection}.*
P284	*Wear respiratory protection*

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2.2.4. ***GHS Response Phrases***

P308+313	*IF EXPOSED OR CONCERNED: Get medical advice/attention*

2.3.*Other information*

Caution -	*Substance not yet tested completely*

3. *Composition/information on ingredients*

Substance		
Substance name:	*Prodigiosin Hydrochloride*	
Concentration	*100%*	
CAS Registry#:	*56144-17-3*	
EC#:	*N.A.*	
Molecular Formula:	*C20H25N3O · HCl*	
Molecular Weight:	*359.9*	
Classification	*Anticancer Antibiotic*	
Mixture?	*Substance.*	

4. *First Aid Measures*

4.1.*Description of First Aid Measures*

General advice:	*Consult a physician. Show this safety data sheet to the doctor in attendance.*
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. Rinse mouth with water. Drink plenty of water*
Inhalation:	*If inhalled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.*

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

	No data available

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

	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, Nitric oxides*
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. Avoid dust formation. Avoid breathing vapours, mist or gas*

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6.2.*Environmental precautions*

Environmental precautions	*No special environmental precautions required*

6.3.*Methods and material for containment and cleaning up*

Methods for containment and cleaning up:	*Sweep up and shovel. Keep in suitable, closed containers for disposal*

7. *Handling and storage*

7.1.*Precautions for safe handling*

Advice on safe handling:	*Provide appropriate exhaust ventilation at places where dust is formed.*

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.* *Protect from light.*
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 / powder*

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Color	**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 decomposition products	Carbon oxides

11. *Toxicological information*

11.1. *Information on toxicological effects*

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

11.1.1. ***Acute Toxicity***	*No data available*
Skin corrosion/irritation:	*No data available*
Serious eye damage/eye irritation:	*No data available*
Respiratory or skin sensitization/corrosion:	*No data available*
Germ cell mutagenicity:	*No data available*
11.1.2. ***Biohazard***	
Carcinogenicity	*No component 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*
STOT-SE – single exposure (GHS):	*No data available*
STOT-SE – repeated exposure (GHS):	*No data available*
Aspiration hazard:	*No data available*

11.2. *Potential hazards*

11.3. *Additional information*

11.3.1. ***RTECS number***	***DW2977000*** *(Clickable)*

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

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14. *Transport information*

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

	US DOT	US IATA	US IMDG	US ADR/RID
UN Number **UN proper shipping name**	*Not dangerous goods; Not regulated*	*Not dangerous goods; Not regulated*	*Not dangerous goods; Not regulated*	*Not dangerous goods; Not regulated*
Transport Hazard Class & Packing Group	*Not dangerous goods; Not regulated*	*Not dangerous goods; Not regulated*	*Not dangerous goods; Not regulated*	*Not dangerous goods; Not regulated*

14.2. *Additional information*

Excepted quantities (EQ)	*Not applicable*
De Minimis exemption	*Not applicable*

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, Number N.A.* *ANNEX III: **Not Listed*** *REACH: **Not Listed***
Other European regulatory information	***International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors:*** *Neither banned nor restricted* ***Restrictions on the marketing and use of certain dangerous substances and preparations:*** *Neither banned nor restricted* ***Regulation (EC) No 649/2012 of the European Parliament and the Council on the export and import of dangerous chemicals*** *Neither banned nor restricted*

16. *Other information*

16.1. *Date of revision:*

, 13 June, 2021

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 specified in the text.

16.4. *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.

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16.5. *Comments:*

Depreciated CAS Registry number(s):
112373-40-7

16.6. *Copyright statement*

16.7. *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*
RTECS:	*Registry of Toxic Effects of Chemical Substances*
Skin Irrit:	*Skin corrosion/irritation*
STOT RE:	*Specific target organ toxicity (repeated exposure)*
TLV:	*Threshold Limit Value*
vPvB:	*Very Persistent and Very Bioaccumulative*

16.8. *End of SDS*

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