



Safety Data Sheet: Citreoviridin

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

administration of the substance, mixture and or the company				
Product identifier	'S			
Product name		Citreoviridin	Formula	$C_{23}H_{30}O_6$
Product Code		CI	RTECS	UQ1235000
CAS#		25425-12-1	MW	402.48
EC/ REACH Number		636-737-5		
Intended uses of the substance or mixture and uses advised against				
Intended use		Uses advised against:		
Only for Research and/or Development		Not for drug, Not to be used in humans or animals. Not food additive		
Details of the supplier of the safety data sheet		Emergency Telepho	ne number	
FERMENTEK Itd 4 Yatziv street, POB 47120 Jerusalem 97800, Israel	Fax: +972 2 5853943 eMail: fermentek@fermentek.com Website: www.fermentek.com		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				
REACH	A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.			

Section 2. Hazards identification

2.1. Classification of the substance

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS Classification:

Acute toxicity - Oral Category 4 H302 Harmful if swallowed.

2.2. GHS Label elements, including precautionary statements

Pictogram:



Signal word DANGER)

GHS Hazard Statements	Acute toxicity - Oral Category 2 Acute toxicity - Dermal Category 3 Acute toxicity - Inhalation (Dusts/Mists) Category 3 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A Reproductive toxicity Category 2 Specific target organ toxicity (single exposure) Category 3
GHS hazard Statements	H300 - Fatal if swallowed H311 - Toxic in contact with skin H315 - Causes skin irritation H319 - Causes serious eye irritation H331 - Toxic if inhaled H335 - May cause respiratory irritation H361 - Suspected of damaging fertility or the unborn child



Page 1 of 6





Citreoviridin **Safety Data Sheet**

Page 2 of 6

GHS Precautionary Statements	P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing P302 + P352 - IF ON SKIN: Wash with plenty of soap and water P332 + P313 - If skin irritation occurs: Get medical advice/ attention P308 + P313 - IF exposed or concerned: Get medical advice/ attention P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray P280 - Wear protective gloves/ eye protection/ face protection P361 - Remove/Take off immediately all contaminated clothing P264 - Wash face, hands and any exposed skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area P403 + P233 - Store in a well-ventilated place. Keep container tightly closed P201 - Obtain special instructions before use P202 - Do not handle until all safety precautions have been read and understood P330 - Rinse mouth P501 - Dispose of contents/ container to an approved waste disposal plant P405 - Store locked up P363 - Wash contaminated clothing before reuse

Composition/information on ingredients Section 3.

Substance

Molecular Formula:	C ₂₂ H ₂₉ N ₇ O ₅ _2HCl; m.w. 544.43
CAS Registry #:	58-58-2
EC#:	200-387-8
Synonyms	Stylomycin, hydrochloride
Classification	Acute Tox. 4 (Oral), H302 - Harmful if swallowed

Mixture

Not mixture. This product is a pure compound

Section 4. **First Aid Measures**

General advice	Consult a physician if necessary. Remove to fresh air	
Skin Contact	Wash skin with soap and water	
Eye contact:	Flush with plenty of water	
Ingestion:	Never give anything by mouth to an unconscious person. Clean mouth with water.	
Inhalation:	Remove to fresh air If breathing is difficult, give oxygen If not breathing, give artificial respiration	
Self-protection of the first aider:	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions tob protect themselves and prevent spread of contamination	
Most important symptoms and effects, both acute and delayed		
Most important symptoms	No information available.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	

Section 5. Fire-fighting measures

Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Suitable extinguishing media



Page 2 of 6





Citreoviridin Safety Data Sheet

Page 3 of 6

Special hazards arising from the substance or mixture	Carbon oxides, Nitrogene oxides, Phosgene
Advice for firefighters	Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit
Further information	No data available

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation, especially in confined areas. Use personal

protective equipment as required. Keep people away from and upwind of

spill/leak.

Environmental precautions

Environmental precautions See part 12

Methods and material for containment and cleaning up

Methods for containment: Prevent further leakage or spillage if safe to do so. Cover powder spill with

plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for

later disposal.

Methods for cleaning up: Cover liquid spill with sand, earth or other non-combustible absorbent material

(e.g. sand, earth, diatomaceous earth, and vermiculite). Cover powder spill with plastic sheet or tarp to minimize spreading. Sweep up and shovel into

suitable containers for disposal.

Section 7. Handling and storage

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.

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.

Incompatible materials: None known based on information available.

Section 8. Exposure Controls/Personal Protection

No occupational exposure limits are listed for this material.

OSHA Permissible Exposure Limits

NIOSH Recommended Exposure Limits

ACGIH Threshold Limit Values

No Data Available

No Data Available

Exposure controls

Appropriate engineering controls

Engineering Controls: Safety showers;

Eyewash stations; Ventilation systems

General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice.



Page 3 of 6



Citreoviridin Safety Data Sheet

Page 4 of 6

Personal protective equipment

The employer/end user, prior to use of this product should perform all recommendations below are advisory in nature and a risk assessment. The type of protective equipment must be selected based on the amount and concentration of the dangerous material being used in the workplace.

[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. 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 Tightly sealed goggles. 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. Wear protective clothing. Choose body protection

according to the amount and concentration of the dangerous substance at the work place. When deemed needed according to the concentration and amount

of this product, use a complete body suit.

Section 9. Physical and chemical properties

Physical / chemical properties

Physical state at room temperature	Solid / powder
Color	Off White
Melting/freezing point	180-195°C

No further safety-relevant information is available

Section 10. Stability and reactivity Reactivity: Chemical stability: Conditions to avoid Incompatible materials Possibility of Hazardous Reactions Hazardous decomposition products:

Reactivity:	No information available.
Chemical stability:	Stable under normal conditions.
Conditions to avoid	Heat, flames and sparks
Incompatible materials	Strong reducers and exidizers
Possibility of Hazardous Reactions	None under normal processing
Hazardous decomposition products:	Carbon monoxide CO, Carbon dioxide (CO2). Nitrogen oxides (NOx). Phosgene.

Section 11. Toxicological information

Information on likely routes of exposure		
Ingestion	Oral, Rodent (Mouse) LD50 = 720 mg/kg; Source: Antibiotics Annual. Vol. 2, Pg. 757, 1954/1955; RTECS AU7355000	
Inhalation	No data available.	
Eye contact.	Irritating effect.	
Skin contact.	No data available.	



Page 4 of 6



Information on toxicological effects	
Symptoms	Nutritional and Gross Metabolic - weight loss or decreased weight gain Lungs, Thorax, or Respiration - respiratory depression Gastrointestinal - hypermotility, diarrhea, nausea Behavioral - muscle weakness; somnolence (general depressed activity)
Chronic Toxicity	No information available
OSHA-Ca (Occupational Safety & Health Administration)	Substance is not listed
NTP (National Toxicology Program)	Substance is not listed
IARC (International Agency for Research on Cancer).	Substance is not listed

Section 12. **Ecological Information**

Eco-Toxicity:	The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. Not classified as dangerous for the ozone layer.
Other adverse effects	No further relevant information available.

Disposal Considerations Section 13.

Waste treatment methods	
Waste from residues / unused products	Dispose of in accordance with local regulations
Contaminated packaging	Dispose of as unused product

Transport information Section 14.

UN number, Proper Shipping Name, Transport Hazard Class, packing group

	US DOT	ADR/RID:	IMDG:	IATA
UN Number UN proper shipping name	N.A.	N.A.	N.A.	N.A.
	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
Transport Hazard Class & Packing Group	None	None	None	None
	Not regulated	Not regulated	Not regulated	Not regulated

Section 15. **Regulatory information**

Safety, health and environmental regulations/legislation			
USA EPA / TSCA	This product is not listed on the USA EPA TSCA		
USA EPA/ SARA	S. 302 (EHS); S. 304 (RQ) – not listed		
EU ECHA Status	This product is not registered with the EU ECHA		
CA: DSL/NDSL Status	This product is not listed on the Canadian DSL/NDSL		

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA): This product does not contain any chemicals, which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No





Page 5 of 6





No

Citreoviridin **Safety Data Sheet** Page 6 of 6

Reactive hazard

Section 16. Other information

Date of revision: 29-May 2017

Disclaimer

End of SDS

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.

H:\installed SDS\SDS_Citreoviridin.docx