

Safety Data Sheet: Borrelidin

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

Product identifiers			
Product name	<i>Borrelidin</i>	CAS #	<i>7184-60-3</i>
Product Code	<i>BO</i>	EC Number	<i>811-923-0</i>
Pure substance/mixture	<i>Substance</i>	Formula	<i>C28H43NO6</i>
RTECS	<i>ED8750000</i>	MW	<i>489.7</i>
Intended uses of the substance or mixture and uses advised against			
Intended use		Uses advised against:	
Research and/or Development For manufacturing of substances Laboratory reagent		Not for drug, Not to be used in humans or animals. Not food additive	
Details of the supplier of the safety data sheet		Emergency Telephone number	
FERMENTEK ltd 4 Yatziv street, POB 47120 Jerusalem 97800, Israel		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	
Tel: +972 2 5853953 Fax: +972 2 5853943 eMail: fermentek@fermentek.com Website: www.fermentek.com			
This company is the manufacturer of the product, and the supplier of the safety data sheet			
REACH	Not listed. 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

Classification of the Substance

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

GHS Classification:

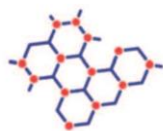
Acute Toxicity, Oral			Not a hazardous substance
Acute toxicity - Dermal			Not a hazardous substance
Acute toxicity - Inhalation (Dusts/ Mists)			Not a hazardous substance
Skin corrosion/irritation			Not a hazardous substance
Serious eye damage/eye irritation			Not a hazardous substance
Carcinogenicity			Not a hazardous substance
Specific target organ toxicity (single exposure)			Not a hazardous substance

GHS Label elements, including precautionary statements

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

The product does not need to be labelled in accordance with EC directives or respective national laws

Pictogram: {NONE} Signal word: {NONE}



Section 3. Composition/information on ingredients

Substance	
Substance name:	Borrelidin
CAS Registry	7184-60-3
Synonyms	
EC number#:	811-923-0
Molecular Formula:	C28H43NO6
Molecular Weight:	489.7
Concentration (weight/weight)	>98%
Mixture or substance	Substance.

Section 4. First Aid Measures

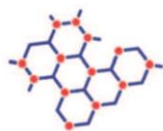
4.1 Description of First Aid Measures

General advice:	If medical attention is required, show this safety data sheet to the doctor.
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. Drink plenty of water.
Inhalation:	If breathed in, move person into fresh air. 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 to protect themselves and prevent spread of contamination.
4.2 Symptoms and effects:	No information is available
4.3 Note to physicians:	Treat symptomatically
	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	None
Hazardous combustion products	Carbon oxides, nitrogen oxides.
Advice for firefighters	Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit.



Section 6. Accidental release measures

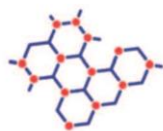
Personal precautions, protective equipment and emergency procedures	
Personal precautions	Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Avoid dust formation. Avoid breathing vapours, mist or gas.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
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

Exposure controls	No occupational exposure limits are listed for this material.
OSHA Permissible Exposure Limits	No Data Available
NIOSH Recommended Exposure Limits	No Data Available
ACGIH Threshold Limit Values	No Data Available
Appropriate engineering controls	Showers, Eyewash stations, Ventilation systems General industrial hygiene practice.
Personal protective equipment	
Eye/face protection	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin 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
Respiratory protection	Respiratory protection is not required.



Section 9. Physical and chemical properties

Physical State at room temperature	Solid / powder
Color	white
Volatile?	No
No further safety-relevant information is available	

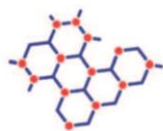
Section 10. Stability and reactivity

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 decomposition products:	Carbon oxides

Section 11. Toxicological information

Information on toxicological effects

The toxicological effects of this product have not been thoroughly studied	
Acute Toxicity	
LD50 (oral - swine)	400 mg/kg
LD50 (intraperitoneal, mouse)	No data available
Skin corrosion/irritation:	No data available
Serious eye damage/eye irritation:	No data available
Respiratory or skin sensitization:	No data available
Germ cell mutagenicity:	No data available
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-RE – repeated exposure (GHS):	No data available
Aspiration hazard:	No data available
Potential Health Effects	
Inhalation:	May be harmful if inhaled. May cause respiratory tract irritation
Skin	May be harmful if absorbed through skin. May cause skin irritation
Eyes:	May cause eye irritation
Ingestion	May be toxic if swallowed
Signs and Symptoms of Exposure	No information available.
Additional information:	RTECS: ED8750000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	



Section 12. Ecological Information

Eco-Toxicity	No further relevant information available
Other adverse effects	No further relevant information available.

Section 13. Disposal Considerations

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

Section 14. Transport information

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

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

Section 15. Regulatory information

Safety, health and environmental regulations/legislation	
USA EPA / TSCA	This product is not listed on the USA EPA TSCA
EU ECHA Status	This product is registered with the EU ECHA
CA: DSL/NDSL Status	This product is not listed on the Canadian DSL/NDSL

Section 16. Other information

Date of revision: Tuesday, 11 February, 2020

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.

End of SDS