



Safety Data Sheet: Valinomycin

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

1.1. Product identifiers

Product name	Aflatoxin G2	Formula	C₁₇H₁₄O₇
Product Code	AFg	RTECS	LV1700000
CAS #	7241-98-7	Molecular weight	328.3
EC Number #	230-643-4		
Date of version	<9 March, 2020>	Substance?Mixture?	Substance

1.2. Intended uses of the substance or mixture and uses advised against

Intended use:	Uses advised against:
Research and development. Laboratory reagent. Reference material. Manufacturing of substances.	Not for drug, Not to be used in humans or animals. Not food additive

1.3. Company information

Details of the supplier of the safety data sheet		Emergency Telephone number
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	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		

1.4. Reach:

See section 15

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008:

Acute oral toxicity	Category 1	H304	May be fatal if swallowed and enters airways
Acute toxicity - Inhalation (Dusts/ Mists)	Category 2	H331	Toxic if inhaled
Reproductive toxicity	Category 1A	H360	May damage fertility or the unborn child
Carcinogenicity	Category 1B	H350	May cause cancer

GHS Label elements, including precautionary statements

Pictogram:  Signal word: {DANGER}



GHS Hazard Statements

H304	May be fatal if swallowed and enters airways
H331	Toxic if inhaled
H350	May cause cancer
H360	May damage fertility or the unborn child.

GHS Precautionary Statements

P201	Obtain special instructions before use.
P260	P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P281	P281 - Use personal protective equipment as required
P301+310	P301-310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P308+P313	P308 + P313 - IF exposed or concerned: Get medical advice/attention

GHS Response Phrases:

P301+P310 + P330	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/ physician
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
P304+340:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310	Immediately call a POISON CENTER or doctor/physician.
P308+313	If exposed or concerned: Get medical advice/attention

3. Composition/information on ingredients

Substance

Substance name:	Aflatoxin G2
Concentration	100%
	CAS Registry #: 7241-98-7 EC#: 230-643-4 RTECS LV1700000
	Molecular Formula: C17H14O7 Molecular Weight: 328.3
Classification	Accute toxicity / oral H304 / H331 / H350 / H360 May be fatal if swallowed and enters airways; / Toxic if inhaled / May cause cancer / May damage fertility or the unborn child.
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:	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
Skin Contact:	Immediate medical attention is required. Wash off immediately with soap and plenty of. water while removing all contaminated clothes and shoes. Wash contaminated



	clothing before reuse. Wash off immediately with plenty of water. If skin irritation persists, call a physician.
Ingestion:	Do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Drink plenty of water. Clean mouth with water and drink afterwards plenty of water. Call a physician.
Inhalation:	Immediate medical attention is required Remove to fresh air If not breathing, give artificial respiration Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Artificial respiration and/or oxygen may be necessary Call a physician Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.
Symptoms	No data available
Note to physician	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	Solid water stream may be inefficient.

5.2. Other information

Hazardous combustion products	Carbon 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	Avoid raising and breathing dust, and provide adequate ventilation.
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6.2. Environmental precautions

Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
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6.3. Methods and material for containment and cleaning up

Methods for containment:	Prevent further leakage or spillage if safe to do so. Contain spill and collect, as appropriate
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.

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. Avoid prolonged or repeated exposure.
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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.
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	Store at -20 °C.
Incompatible materials:	None known based on information available.

8. Exposure Controls/Personal Protection

8.1. Control parameters

Control parameters	Components with workplace control parameters
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8.2. Exposure controls

Appropriate engineering controls

- 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

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 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
Color	
Melting/freezing point	
Volatile?	Not volatile
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 decomposition products	Carbon oxides
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11. Toxicological information

11.1. Information on toxicological effects

The toxicological effects of this product have not been thoroughly studied.

Acute Toxicity

Ingestion	TDL0 (oral - rat) : 4.1 mg/kg
Absorbtion thru Skin	No data available
Skin corrosion/irritation:	No data available
Serious eye damage/eye irritation:	No data available
Respiratory or skin sensitization/corrosion:	No quantitative data available

Chronic toxicity

Chronic Toxicity	
Germ cell mutagenicity:	
Carcinogenicity:	Evidence of a carcinogenic effect. IARC Monographs, Vol. 56; 1993. Overall Carcinogenic Evaluation: Group 1, Carcinogenic to humans. Listed Name(s): Aflatoxin G2.
Reproductive toxicity / Teratogenicity:	No quantitative data available
STOT-SE – single exposure (GHS):	Liver.

11.2. Additional information

RTECS number	LV1700000
Symptoms	Cough, Shortness of breath, Headache, Nausea, Vomiting Exposure may severe irritaiton of eyes, mucous membranes, upper respiratory tract and skin

12. Ecological Information

12.1. Toxicity

	This product is not classified as environmentally hazardous according to the UN Model Regulations, nor a marine pollutant according to the IMDG Code.
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



14. Transport information

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

	US IATA	US ADR	US RID	US IMDG
UN Number UN proper shipping name	Toxins, extracted from living sources, solid, n.o.s. (Aflatoxin G2)	Toxins, extracted from living sources, solid, n.o.s. (Aflatoxin G2)	Toxins, extracted from living sources, solid, n.o.s. (Aflatoxin G2)	Toxins, extracted from living sources, solid, n.o.s. (Aflatoxin G2)
Transport Hazard Class & Packing Group	6.1, II	6.1, II	6.1, II	6.1, II
Additional information	Excepted quantities (EQ)	Code: E5	Maximum net quantity per inner packaging: 1 g	Maximum net quantity per outer packaging: 300 g
				Not marine pollutant

14.2. Small quantities

When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore, packaging does not have to be labeled as Dangerous Goods/Excepted Quantity

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation

USA EPA / TSCA	This product is listed on the USA TSCA Listed on EPA Haz list (Source: New Jersey dept of Health)
EU ECHA Status	This product is registered with the EU ECHA, Number 230-643-4 ANNEX III: Listed REACH: Preregistration process.

16. Other information

16.1. Date of revision: Monday, 9 March, 2020

16.2. 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. Users should make their own investigations to determine the suitability of the information for their particular purposes

End of SDS