



Safety Data Sheet: Citrinin

1. Identification of the substance and the Manufacturer

Product identifiers

Product name	Citrinin	Formula	C₁₃H₁₄O₅
Product Code	C	RTECS	DJ2275000
CAS #	518-75-2	Molecular weight	250.25
EC Number #	208-257-2		

Intended uses of the substance or mixture and uses advised against

Intended use	Uses advised against:
Only for Research and/or Development. To be used by qualified scientists only.	Not for drug, Not to be used in humans or animals. Not food additive
Details of the manufacturer and the supplier of the safety data sheet	Emergency Telephone numbers
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	
Reach: Pre-registered.	

2. Hazards identification

Classification of the substance or mixture

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

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity; Oral	Category 3	H301	Fatal if swallowed
Acute toxicity, Inhalation	Category 3	H331	
Acute toxicity, Dermal	Category 3	H311	
Carcinogenicity	Category 2	H351	Suspected of causing cancer.

EU Classification (According to EU Regulation 67/548/EEC)

Toxic by inhalation, in contact with skin and if swallowed. Irritating to the skin. Risk of serious damage to the eyes.

Limited evidence of a carcinogenic effect.

GHS Label elements, including precautionary statements

Pictogram:  } Signal word: **Danger**

Hazard statements

H301 + H311 + H331	Toxic if swallowed, in contact with skin or if inhaled.
H351	Suspected of causing cancer

Precautionary statements



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P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.
P302 + P352 + P312	IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell.
P304 + P340 + P311	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor.
P405	Store locked up.

3. Composition/information on ingredients

Substance	
Substance name:	Citrinin
	CAS Registry #: 518-75-2 EC#: 208-257-2
	Molecular Formula: C13H14O5
	Molecular weight: 250.25
	Concentration: ≤ 100%
Classification	Acute Tox. 3; Carc. 2; H301, H331, H311, H351 <
Mixture	Not mixture.

4. First Aid Measures

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. Take victim immediately to hospital. Consult a physician.
Ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
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.
Most important symptoms:	No information available.
Note to physicians:	No information available.

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. Phosgene.
Advice for firefighters	Wear self-contained breathing apparatus for fire fighting.



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Wear protective suit.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
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.

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.
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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 sunlight. Protect from moisture.
Incompatible materials:	None known based on information available.

8. Exposure Controls/Personal Protection

No occupational exposure limits are listed for this material.

Exposure Limits:	None known, based on information available.	
	OSHA Permissible Exposure Limits	No Data Available
	NIOSH Recommended Exposure Limits	No Data Available
	ACGIH Threshold Limit Values	No Data Available
Exposure 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.	
[PPE=Personal Protection 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	
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.	
PPE Eye/face protection	Wear safety glasses with side shields (or goggles). Optional face mask.	



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PPE Skin and Body Protection	Wear protective gloves and protective clothing. Gloves made of plastic or rubber. Suitable protective clothing. Suitable protective clothing. Apron.
PPE Respiratory Protection	Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

9. Physical and chemical properties

Physical / chemical properties

Physical State at room temperature	Solid / powder
Color	Yellow crystalline powder
Melting/freezing point	240°C -260°C
No further safety relevant data are available	

10. Stability and reactivity

Melting/freezing point	105°C-110°C
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, Nitrogen oxides, Phosgen

11. Toxicological information

Information on toxicological effects

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

Acute Toxicity	
Ingestion	Mouse, Oral, LD50=112 mg/kg
Inhalation	No quantitative data available
Serious eye damage/eye irritation:	No quantitative data available
Skin corrosion/irritation:	Moderate irritation
Respiratory or skin sensitization:	No quantitative data available
Germ cell mutagenicity:	No data available
Reproductive toxicity / Teratogenicity:	No quantitative data available
Aspiration hazard:	No quantitative data available
Carcinogenicity:	Limited evidence of carcinogenicity. This compound has been designated by the IARC as Group 3-Not classifiable as to its carcinogenicity to humans.



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Potential Health Effects	
Ingestion	Toxic if swallowed
Skin:	Toxic if absorbed through skin. Causes skin irritation
Eyes:	Causes severe eye irritation
Inhalation:	Toxic if inhaled. May cause respiratory tract irritation
Signs and Symptoms of Exposure:	No data available
Additional information:	RTECS: <i>DJ2275000</i>

12. Ecological Information

Eco-Toxicity	No further relevant information available
Other adverse effects	No further relevant information available.
Persistence and degradability	No further relevant information available
Bioaccumulation	No further relevant information available.
Mobility in soil	No further relevant information available
PBT and vPvB assessment	No further relevant information available.

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 Do not reuse container.



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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	UN 2811 - Toxic solid, organic, n.o.s. (Citrinin)	UN 2811 - Toxic solid, organic, n.o.s. (Citrinin)	UN 2811 - Toxic solid, organic, n.o.s. (Citrinin)	UN 2811 - Toxic solid, organic, n.o.s. (Citrinin)
Transport Hazard Class & Packing Group	6.1 PG III	6.1 PG III	6.1 PG III	6.1 PG III

15. Regulatory information

Safety, health and environmental regulations/legislation

USA EPA / TSCA	This product is exempt of TSCA registration as it is "For Research only". Nevertheless, it appears in the TSCA candidate list of chemical substances.
U ECHA Status	This product is registered with the EU ECHA; EC number 208-257-2 Listed: Annex III inventory Listed: EC Inventory Listed: REACH Pre-registered substances.
Canada: DSL/NDSL Status	This product is not listed on the Canadian DSL/NDSL (as on the revision date)

16. Other information

Date of revision:

Monday, 3 October, 2022 22:10

Department issuing this SDS

Quality systems and regulatory affairs

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.

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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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
- Skin Irrit: Skin corrosion/irritation
- STOT RE: Specific target organ toxicity (repeated exposure)
- TLV: Threshold Limit Value
- vPvB: very Persistent and very Bioaccumulative

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