



Sections

SDS Citrinin vers 8-2024

1. Identification of the Substance and the Manufacturer 1.1. Product identifiers

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1.2. Intended uses of the Substance and uses advised against

Product name	<u>Citrinin A</u>		Formula	a	C13H14O5
Product Code	Cit-001		Molecul	lar weight	250.25 g/mol
CAS#	518-75-2		Mixture	?	Substance
<u>ECHA</u> #	<u>208-257-2 🕑</u>		PUBCH	<u>IEM</u>	<u>54680783 €</u>
<u>HSDB</u>	<u>3473 🕑</u>		<u>RTECS</u>		<u>DJ2275000- ∽</u>
			<u>T3DB#</u>		<u>T3D3597 🖑</u>
Comptox EPA	<u>8020333 🕐</u>		<u>CHEBI</u>		<u>CHEBI:4870</u>
Synonyms and	Citriain		Citrinin		
other names	3,4-dihydro-8-hydroxy-3,	4,5-trin	ethyl-6H-	6-oxobenzo(c)pyr	an-7-carboxylic acid
Source	From: Penicillium cit	rinum		Vers Date	7 October, 2024
1.2.1. Intended	use:	1.2.2.	Uses ad	vised against:	
1.2.1. Intended Research and dev		1.2.2. Not a		vised against:	
	elopment.	Not a			
Research and dev	elopment. nt.	Not a s	drug, food additt		als.
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FERMENTEK ltd	<i>Tel:</i> +972 2 5	5853953
4 Yatziv street, POB 47120	<i>Fax:</i> +972 2.	5853943
Jerusalem 97800,	eMail:	<u>Fermentek@Fermentek.com</u>
Israel		<u>Safety@Fermentek.com</u>
	Website:	<u>Fermentek.com</u>

This company is the manufacturer of the product and the supplier of the safety data sheet 1.3.2. 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



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2. Hazards' identi	0		
2.1. Classification of the		Dec 11	77/2000 and US OSHA 1010 1200
2.1.1. GHS Classification: Accute toxicity: Oral	Accoraing to EC Category 3	H301	72/2008 and US OSHA 1910.1200) Toxic if swallowed (based on estimate)
<i>Reproductive toxicity</i>	Category 1	H360	May damage fertility or the unborn child
	•••		tionary statements
2.2.1. Pictogram: {	Signal word	-	
H301	Harmful if sw	vallowed	
H360	May damage	fertility o	or the unborn child
2.2.3. GHS Precautionary	Statements		
P203	Obtain, read	and follo	w all safety instructions before use.
P261	Avoid breath	ing dust o	or mist.
P264	Wash {hands	} thoroug	ghly after handling.
P270	Do not eat, di	rink or sr	noke when using this product.
P272	Contaminated	d work cl	othing should not be allowed out of the workplace.
P280	Wear protect protection/he	0	s/protective clothing/eye protection/face otection
2.2.4. GHS Response Phra			
P301+P310	IF SWALLOV	VED: Im	mediately call a POISON CENTER/doctor/
P330	Rinse mouth.		
P308+P313	IF exposed or c	concerned	: Get medical advice/attention
3. Composition/in	formation or	n ingre	edients
Substance			
Substance Name:	Citrinin		
Concentration	<=100%		
CAS Registry#:	518-75-2		
<i>EC#</i> :	208-257-2		
Molecular Formula:	C13H14O5		
Molecular Weight:	250.25 g/mol		
Classification	Acc 0:3 (H30	01); Repr	ro:1(H360)
Mixture?	Substance		







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4. First Aid Meast 4.1.Description of First A		
General advice:	First-aiders need to protect themselves. If medical attention is required, show this in attendance.	safety data sheet to the doctor
Ingestion:	If swallowed: give water to drink (two gla advice immediately.	usses at most). Seek medical
4.2.Most important symp	oms and effects, both acute and delay	ved
General symptoms	See section 11	
4.3.Indication of any imm	ediate medical attention and special i	treatment needed
Note to physicians	No data available	
5. Fire-fighting m 5.1.Extinguishing media	easures.	
Suitable extinguishing media	Use water spray, alcohol-resistant foar dioxide.	m, dry chemical or carbon
Unsuitable extinguishing me	ia None known	
5.2. Other information		
Hazardous combustion prod	cts Carbon oxides, Nitrogene oxides C13H14O5	
Advice for firefighters	Wear self-contained breathing apparate Wear protective suit.	tus for fire fighting if necessary.
6. Accidental relea	se measures	
6.1.Personal precautions	protective equipment, and emergency	y procedures
Personal precautions	Use personal protective equipment as req and upwind of spill/leak.	uired. Keep people away from
6.2.Environmental preca	utions	
Environmental precautions	Prevent further leakage or spillage if safe entering drains.	to do so. Prevent product from
6.3.Methods and materia	for containment and cleaning up	
Methods for containment:	Prevent further leakage or spillage if safe with a plastic sheet or tarp to minimize sp liquid spill for later disposal.	
Methods for cleaning up:	Clean-up should be dealt with only by qua the specific substance. Cover liquid spill w combustible absorbent material (e.g., san and vermiculite). Cover the powder spill w	with sand, earth or other non- d, earth, diatomaceous earth,





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	<i>minimize spreading. Sweep up and shovel into suitable containers for disposal.</i>
7. Handling and sto	orage
7.1.Precautions for safe ha	ndling
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.
7.2. Conditions for safe stor	rage, 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.
Suitable packaging	Must only be kept in original packaging.
Incompatible materials:	None known based on information available.
8. Exposure Contro	ls/Personal Protection

Attiention:

Usually, the product of concern would be present at the intended workplace in miniscule amounts, while surrounded by considerable amounts of other flammable, toxic or otherwise hazardous substances. Therefore, the employer/user should perform a risk assessment prior to the use of this product.

The type of protective equipment must be selected based on the amount and concentration of all dangerous materials being used in the workplace.

All recommendations included in this document are advisory in nature

8.1. Control parameters Control parameters Components with workplace control parameters 8.2. Exposure controls Appropriate engineering Showers, Eyewash stations, Ventilation systems controls Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product. Use fume-hood for routine work.





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8.3. Personal protective equipment

[PPE=Personal Protection Eq	uipment]
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. 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.

Physical and chemical properties 9.

The information given here does not purport specification of warranty of any kind. It 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.

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9.1.Physical/chemical properti	es
Physical State at room temperature	Solid
Appearance	Yellow crystalline solid
No further safety relevant data are	available
10. Stability and reactive	ity
Reactivity:	No information available.
Chemical stability:	Stable under normal conditions.
Conditions to avoid	Heat, flames and sparks. Sunlight.
Incompatible materials	Strong reducers and exidizers









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Possibility of Hazardous Reactions	None under normal processing
Hazardous combustion products	See section 5
11. Toxicological inform	nation
11.1. Information on	toxicological effects
· ·	cicological effects of this product have not been thoroughly studied yet.
11.1.1. Acute Toxicity	
Acute toxicity:	Oral, Mouse, LD50= 105 mg/kg No other acute toxicity available.
Skin corrosion/irritation:	No data available
Serious eye damage/eye irritation:	No data available
Respiratory or skin sensitization/corrosion:	No data available
11.1.2. Chronic toxicity	
Chronic toxicity	No data available
11.1.3. CRM (Carcinogene, Mutag	ene, Reproductive hazards)
Germ cell mutagenicity:	Mutations in Bacteria, Human and rodent cells.
Carcinogenicity:	IARC: Not classifiable as to its carcinogenicity to humans
	Tumorigenic - neoplastic by RTECS criteria
Reproductive toxicity / Teratogenicity:	Developmental Abnormalities - other developmental abnormalities urogenital system craniofacial (including nose and tongue). Central Nervous System. Hepatobiliary system Fetus - fetal death Maternal Effects - uterus, cervix, vagina
11.2. Additional infor	mation
RTECS number	DJ2275000-
General symptoms	Blood - thrombocytopenia Lungs, Thorax, or Respiration – dyspnea. respiratory stimulation Behavioral - somnolence (general depressed activity) Sense Organs and Special Senses (Eye) - miosis (pupillary constriction) Kidney/Ureter/Bladder - other changes







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12.

Ecological Information

Eco-Toxicity	No data available
Other adverse effects	No data available
	_

13. Disposal Considerations

13.1. Waste treatment methods

Waste Disposal

Dispose of in accordance with local regulations Dispose of as unused product

Contaminated packaging

14. Transport information

14.1. UN Number, Proper Shipping Name, Transport Hazard Class, packing

group

15.1.

8.000	IATA	IMDG	ADR/RID	US/DOT
UN Number, Proper shipment name	UN 3462 Toxins, extracted from living sources, solid, n.o.s. (Citrinin)			
Transport hazard Class, Packing group	6.1 poison Packing group PG3 (Citrinin)			
Comments		Not marine polutant		

15. Regulatory information

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 registered with the EU ECHA, Number 208-257-2 REACH: Neither Registered nor PreRegistered.
	ANNEX III (criteria for 1 - 10 tonne registered substances): Not Listed

16. Other information

16.1. Version information

Version date:8-2024 Toxicity re-classified based on new edition of RTECS







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16.3.	
	General Disclaimer
v	tion provided in this Safety Data Sheet is correct to the best of our knowledge, information t the date of its publication.
•	tion given here is designed only as guidance for safe handling, use, processing, storage, on, disposal, and release and is not to be considered a warranty or quality specification .
v	tion relates only to the specific material designated and may not be valid for such material bination with any other materials or in any process, unless explicitly specified in the text.
16.4.	The users'/employers' responsibility:
otherwise	hazardous substances.
product. T concentra	the employer/user should perform a risk assessment by prior to the use of this he type of protective equipment must be selected based on the amount and tion of all dangerous materials being used in the workplace. mendations included in this document are advisory in nature.
product. T concentra All recom	he type of protective equipment must be selected based on the amount and tion of all dangerous materials being used in the workplace.
product. T concentra All recomi	he type of protective equipment must be selected based on the amount and tion of all dangerous materials being used in the workplace. mendations included in this document are advisory in nature.
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Append	ix A : Abbreviations and acronyms:
A	This symbol means, the text looking like a hyperlink, is a clickable link indeed. Of course, these are only active
	on glass screens, not on paper.
Synthetic / From	"Synthetic" means this compound has been manufactured by chemical conversion of another product of ours.
	"From" means the compound was extracted from biomass, whther algal, fungal, microbial or plant material
Mixture/Substance	Mixture means there are two or more pure substances mixed purposely.
	Not including cases of two or more substances which naturally occur together and are sold unseparated
Acute Tox.:	Acute toxicity
CAS:	Chemical Abstracts Service
ChEBI	Chemical Entities of Biological Interest
Comptox	CompTox Chemicals Dashboard Resource Hub (EPA)
DOT:	US Department of Transportation
ECHA	European Chemicals Agency
EINECS:	European Inventory of Existing Commercial Chemical Substances
EPA	United States Environmental Protection Agency
Eye Dam.:	Serious eye damage/eye irritation
HSDB	Hazardous Substances Data Bank
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
LDLO	Letal dose, leatst published
NDG	Not dangerous goods (for transport)
NFPA:	National Fire Protection Association USA
NIOSH:	National Institute for Occupational Safety
NOAEL	No-Observed-Adverse-Effects-Level. Highest dose which yelded no results at toxisity test
OSHA:	Occupational Safety & Health
PBT:	Persistent, Bioaccumulative, and Toxic
PEL:	Permissible Exposure Limit
PubChem	An open chemistry database at the National Institutes of Health (NIH). "
REL:	Recommended Exposure Limit
Repr.:	Reproductive toxicity, incl. hazards to reproductive systems, and pregnancy and the offspring.
RTECS:	Registry of Toxic Effects of Chemical Substances. Not free.
Skin Irrit:	Skin corrosion/irritation
STOT/SE	Specific target organ toxicity/Single exposure
STOT/RE	Specific target organ toxicity/Repeated exposure
T3DB	Toxin and Toxin Target Database
TDLO	Toxic dose, least published

