

Bongkreki acid solution

Safety
Data Sheet

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1. Identification of the Substance and the Manufacturer

1.1. Product identifiers

Product name	Bongkreki acid solution (as 0.1% in TRIS buffer)	Formula	C ₂₈ -H ₃₈ -O ₇
Product Code	BON	Molecular weight	486.60 g/mol
CAS#	11076-19-0	Mixture?	Mixture
ECHA#	Not listed as on 8-2024	PUBCHEM	5381207
HSDB	HSDB 8497	RTECS	JR1230000
Comptox EPA	00894840	CHEBI	CHEBI:77742
Synonyms and other names	Flavotoxin A (2E,4Z,8Z,10E,14E,18E,20Z)-20-(carboxymethyl)-6-methoxy-2,5,17-trimethyldocosa-2,4,8,10,14,18,20-heptaenedioic acid	Bongkreki Acid	
Source	From: <i>Pseudomonas gladioli</i> (= <i>Burkholderia gladioli</i>)	Vers Date	27 January, 2025

1.2. Intended uses of the Mixture and uses advised against

1.2.1. Intended use:	1.2.2. Uses advised against:
Research and development. Laboratory reagent. Reference material. Manufacturing of substances. To be used by professionals only	Not a drug, Not a food additive Not to be used in humans or animals.

1.3. Contacts

1.3.1. Details of the supplier of the SDS
<p>FERMENTEK ltd 4 Yatziv street, POB 47120 Jerusalem 97800, Israel</p> <p>Tel: +972 2 5853953 Fax: +972 2 5853943 eMail: Fermentek@Fermentek.com Safety@Fermentek.com Website: Fermentek.com</p>

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' identification.

Comment regarding the toxicity level of "The Bongkreki acid in solution"
This product contains 1 mg of solid bongkreki acid in watery solution (TRIS BUFFER). Therefore, this product presents no hazard.

2.1. Classification of the Mixture .

2.1.1. GHS Classification: According to EU Reg. 1272/2008 and US OSHA 1910.1200)

Not hazardous, not classified according to EU Reg. 1272/2008 and US OSHA 1910.1200).

2.2. GHS Label elements, including precautionary statements

2.2.1. Pictogram: { None } Signal word: {None}

2.2.2. Hazard Statements

Attention:

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.

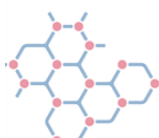
All recommendations included in this document are advisory in nature

2.2.3. GHS Precautionary Statements

P203	Obtain, read and follow all safety instructions before use.
P261	Avoid breathing dust or mist.
P264	Wash {hands} thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection

3. Composition/information on ingredients

Mixture	Data For Bongkreki acid unless explicitly stated otherwise
Substance Name:	Bongkreki acid solution
Composition	0.1% Solid Bongkreki acid in 99.9% TRIS buffer



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CAS Registry#:	11076-19-0
EC#:	998-673-7(for bongkreki acid) Solution is Not listed as on 8-2024
Molecular Formula:	C ₂₈ -H ₃₈ -O ₇ (for bongkreki acid)
Molecular Weight:	486.60 g/mol
Classification	Acc O:3 (H301) for Bongkreki acid . Mixture/solution is not classifiable
Mixture?	Mixture

4. First Aid Measures.

4.1. Description of First Aid Measures.

General advice:	First-aiders need to protect themselves. If medical attention is required, show this safety data sheet to the doctor in attendance.
Ingestion:	If swallowed: give water to drink (two glasses at most). Seek medical advice immediately.

4.2. Most important symptoms and effects, both acute and delayed

General symptoms	See section 11
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4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians	No data available
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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	None known

5.2. Other information

Hazardous combustion products	Carbon oxides, Nitrogene oxides, Sulfur oxides, Sulfur hydrogene C ₂₈ -H ₃₈ -O ₇
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	Use personal protective equipment as required. Keep people away from and upwind of spill/leak.
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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. Cover the powder spill with a plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.
Methods for cleaning up:	Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Cover liquid spill with sand, earth or other non-combustible absorbent material (e.g., sand, earth, diatomaceous earth, and vermiculite). Cover the powder spill with a 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.
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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. Store at -20 °C.
Suitable packaging	Must only be kept in original packaging.
Incompatible materials:	None known based on information available.

8. Exposure Controls/Personal Protection

Attention:

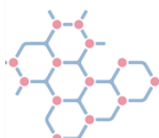
Usually, the product of concern would be present at the intended workplace in miniscule amounts, while surrounded by considerable amounts of other flammable, toxic or otherwise hazardous substances. Therefore, the employer/user should perform a risk assessment prior to the use of this product.

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
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8.2. Exposure controls

Appropriate 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 fume-hood for routine work.

8.3. Personal protective equipment

[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. 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

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.

9.1. Physical/chemical properties

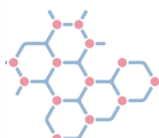
Physical State at room temperature

Liquid

Appearance

Colorless

No further safety relevant data are available



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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 combustion products	See section 5

11. Toxicological information

11.1. Information on toxicological effects

To the best of our knowledge, the toxicological effects of this product have not been thoroughly studied yet.

11.1.1. Acute Toxicity

Acute toxicity:	Intravenous, Mouse, LD50=1.4 mg/kg of solid toxin Estimated Oral, Mouse, LD50= 15 mg/kg Equivalent to 15 ml solution /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
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11.1.3. CRM (Carcinogene, Mutagene, Reproductive hazards)

Germ cell mutagenicity:	No data available
Carcinogenicity:	Not classified by IARC
Reproductive toxicity / Teratogenicity:	No data available

11.2. Additional information

RTECS number	JR1230000 / refers to solid toxin
General symptoms	No data available



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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
Contaminated packaging	Dispose of as unused product

14. Transport information

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

	IATA	IMDG	ADR/RID
UN Number, Proper shipment name	Not classified (Bongkreki acid solution)	IATA	IATA
Transport hazard Class, Packing group	Not hazardous for transport (Bongkreki acid solution)	Not classified (Bongkreki acid solution)	Not classified (Bongkreki acid solution)
Comments		Not marine pollutant	

15. Regulatory information

15.1. 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 Not listed as on 8-2024 REACH: Neither Registered nor PreRegistered. ANNEX III (criteria for 1 - 10 tonne registered substances): Not Listed

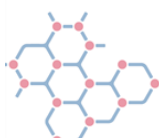
16. Other information

16.1. Version information

Version date:	
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16.2. Department issuing this SDS

Quality systems and regulatory affairs
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16.3. 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 explicitly specified in the text.

16.4. The users'/employers' responsibility:

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 by 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.

16.5. No © copyright

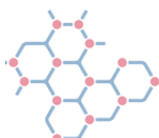


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16.6. End of SDS



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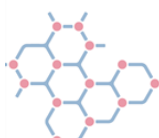
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Appendix A : Abbreviations and acronyms:

	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, whether 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, least published
NDG	Not dangerous goods (for transport)
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
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



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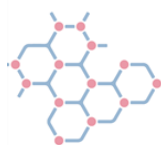
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Appendix A : Abbreviations and acronyms:

	 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, whether algal, fungal, microbial or plant material
Complex:	Some related compounds which naturally occur together and sold unseparated.
Substance	Either a pure chemical or a complex
Mixture	A product where two or more compounds have been purposely mixed
Acute Tox.:	Acute toxicity
CAS:	Chemical Abstracts Service
ChEBI	Chemical Entities of Biological Interest
Comptox	CompTox Chemicals Dashboard Resource Hub (USA 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. Wherever possible, gives antidotes and treatment options.
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
LDL0	Letal dose, least published
NDG	Not dangerous goods (for transport)
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
PubChem	An open chemistry database at the National Institutes of Health (NIH). "
REL:	Recommended Exposure Limit
Repr.:	Reproductive toxicity
RTECS:	Registry/Toxic Effects/Chemical Substances. Not free. Contains mainly experimental data



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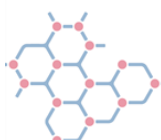
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<i>Skin Irrit:</i>	<i>Skin corrosion/irritation</i>
<i>STOT/SE</i>	<i>Specific target organ toxicity/Single exposure</i>
<i>STOT/RE</i>	<i>Specific target organ toxicity/Repeated exposure</i>
<i>T3DB</i>	<i>Toxin and Toxin Target Database</i>
<i>TDLO</i>	<i>Toxic dose, least published</i>



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Appendix B : Toxicity conversion to regulatory categories





Source: <https://www.ilo.org/legacy/english/protection/safework/ghs/ghsfinal/ghsc05.pdf>

Data in mg/kg body weight ; LD50/oral/Mouse or Rat; rats usually are twice as susceptible as mice.

Datum of Prime importance is LD50/oral/Mouse, believed to be equivalent to human toxicity.

Experiments are conducted mainly on Mice and Rats. If Monkey data are given (very rarely) , these may be used as best.

If no oral data available but subcutaneous/IV is, you can guess oral by multiplying IP by 5 or IV by 10.

Exposure	CAT 1	CAT 2 LD50/oral/mouse	CAT 3 LD50/oral/mouse	CAT 4 LD50/oral/mouse
Oral	<5	5-50	50-300	300-2000
Dermal	<50	5-200	200-1000	1000-2000
Dust/Mist mg/L (timing?)	<0.2	0.2-2	2-4	
				
Packing Group	1	2	3	NDG

Packing group equals to the worst category of the three acute ones.

