



Safety  
Data  
Sheet

# Ionomycin Free Acid

Sections



SDS Ionomycin Free Acid vers 8-2024

Page 1 of 9

## Identification of the Substance and the Manufacturer

### 1.1. Product identifiers

Product name	<a href="#">Ionomycin Free Acid</a>	Formula	C <sub>41</sub> H <sub>72</sub> O <sub>9</sub>
Product Code	IOF	Molecular weight	709 g/mol
CAS#	56092-81-0	Mixture?	Substance
ECHA#	<a href="#">611-356-7</a>	<a href="#">PUBCHEM</a>	<a href="#">6912226</a>
		<a href="#">RTECS</a>	NO0600000
<a href="#">Comptox EPA</a>	<a href="#">2040521</a>	<a href="#">CHEBI</a>	<a href="#">63954</a>
Synonyms and other names	Ionomycin Free Acid (4R,6S,8S,10Z,12R,14R,16E,18R,19R,20S,21S)-11,19,21-trihydroxy-22-[(2S,5S)-5-[(2R,5S)-5-[(1R)-1-hydroxyethyl]-5-methyloxolan-2-yl]-5-methyloxolan-2-yl]-4,6,8,12,14,18,20-heptamethyl-9-oxodocosa-10,16-dienoic acid		
Source	From: Streptomyces conglobatus	Vers Date	10 October, 2024

### 1.2. Intended uses of the Substance and uses advised against

<b>1.2.1. Intended use:</b>	<b>1.2.2. Uses advised against:</b>
For Research and development. Laboratory reagent. Reference material. For 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

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

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





Safety  
Data  
Sheet

# Ionomycin Free Acid

Sections



SDS Ionomycin Free Acid vers 8-2024

Page 2 of 9

## 2. Hazards' identification.

### 2.1. Classification of the Substance .

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

Accute toxicity: Oral	Category 3	H302	Harmful if swallowed
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### 2.2. GHS Label elements, including precautionary statements

2.2.1. Pictogram:  Signal word: { Warning }

#### 2.2.2. Hazard Statements

H302	Harmful if swallowed
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#### 2.2.3. GHS Precautionary Statements

P201	Obtain, read and follow all safety instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
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

#### 2.2.4. GHS Response Phrases:

P312	IF SWALLOWED: call a POISON CENTER/doctor IF you feel unwell.
P330	Rinse mouth.

## 3. Composition/information on ingredients

### Substance

Substance Name: Ionomycin Free Acid

Concentration: <=100%

CAS Registry#: 56092-81-0

EC#: 611-356-7

Molecular Formula: C<sub>41</sub>H<sub>72</sub>O<sub>9</sub>

Molecular Weight: 709 g/mol

Classification: Acc O:3 (H302)

Mixture? Substance

## 4. First Aid Measures.

### 4.1. Description of First Aid Measures.

General advice:	First-aiders need to protect themselves.
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Safety  
Data  
Sheet

# Ionomycin Free Acid

Sections



SDS Ionomycin Free Acid vers 8-2024

Page 3 of 9

	If medical attention is required, show this safety data sheet to the doctor in attendance.
Eye contact:	Rinse out with plenty of water. Remove contact lenses.
Skin Contact:	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.
Ingestion:	If swallowed: give water to drink (two glasses at most). Seek medical advice immediately.
Inhalation:	If inhaled, move the person into fresh air.

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

General symptoms	<a href="#">See section 11</a>
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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 Formula $C_{41}H_{72}O_9$
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.
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Safety  
Data  
Sheet

# Ionomycin Free Acid

Sections



SDS Ionomycin Free Acid vers 8-2024

Page 4 of 9

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.

### 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 being surrounded by considerable amounts of other flammable, toxic or otherwise hazardous substances. Therefore, a risk assessment should be performed by the employer/user **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 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.





Safety  
Data  
Sheet

# Ionomycin Free Acid

Sections



SDS Ionomycin Free Acid vers 8-2024

Page 5 of 9

## 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

### 9.1. Physical/chemical properties

Physical State at room temperature	Amorphous
Appearance	Waxy material
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





Safety  
Data  
Sheet

# Ionomycin Free Acid

Sections



SDS Ionomycin Free Acid vers 8-2024

Page 6 of 9

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:

Oral, Mouse, No experimental data available. LD50=60 mg/kg  
estimated from experimental datum: Subcutaneous, Mouse LD50= 28  
mg/kg (RTECS 2002)  
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, 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

NO0600000

General symptoms

## 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





Safety  
Data  
Sheet

# Ionomycin Free Acid

Sections



SDS Ionomycin Free Acid vers 8-2024

Page 7 of 9

## 14. Transport information

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

UN Number	UN 3462: Toxins, Extracted from Living Sources, Solid, N.O.S. (Ionomycin <b>Free Acid</b> )
UN proper shipping name	UN 2811-Toxic Solid, Organic, N.O.S. (Ionomycin <b>Free Acid</b> )
	Not classifiable. Not hazardous for transport. (Ionomycin <b>Free Acid</b> )
Transport Hazard Class & Packing Group	Class 6.1 (Poison) ; Packing group III

## 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 611-356-7 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

<p>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.</p> <p>The information given here is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is <b>not to be considered a warranty or quality specification</b>.</p> <p>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.</p>
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### 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, a risk assessment should be performed by the employer/user prior to the use of this product.**





Safety  
Data  
Sheet

# Ionomycin Free Acid

Sections



SDS Ionomycin Free Acid vers 8-2024

Page 8 of 9

**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





Safety  
Data  
Sheet

# Ionomycin Free Acid

Sections



SDS Ionomycin Free Acid vers 8-2024

Page 9 of 9

## Appendix A : Abbreviations and acronyms:

Acute Tox.:	Acute toxicity
CAS:	Chemical Abstracts Service
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
LDL0	Letal dose, leatst 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
REL:	Recommended Exposure Limit
Repr.:	Reproductive toxicity
RTECS:	Registry of Toxic Effects of Chemical Substances
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
TDL0	Toxic dose, least published

