



Safety Ionomycin (Ca salt)

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#### Identification of the Substance and the Manufacturer 1.

#### **Product identifiers** *1.1.*

Product name	Ionomycin (Ca salt)	Formula	C41H70O9Ca
Product Code	IOC-	Molecular weight	747.06 g/mol
CAS#	56092-82-1	Mixture?	Substance
ECHA#	<u>611-357-2</u>	<u>PUBCHEM</u>	<u>146159205</u>
Comptox EPA	<u>101017257</u>	<u>RTECS</u>	NO0650000
Synonyms and	Ionomycin, calcium salt	Lonomycin calcium	SQ23377 (calcium)
other names			

oiner names

*Synthetic / From: Source* 

18 August, 2024 Vers Date

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

*1.2.1.* Intended use: *1.2.2.* Uses advised against:

Research and development. Not a drug,

Not a food additive Laboratory reagent.

Reference material. Not to be used in humans or animals.

Manufacturing of substances. To be used by professionals only

#### **Contacts** *1.3.*

#### 1.3.1. Details of the supplier of the SDS

Tel: +972 2 5853953 FERMENTEK ltd Fax: +972 2 5853943 4 Yatziv street, POB 47120

eMail: Fermentek@Fermentek.com Jerusalem 97800,

Safety@Fermentek.com Israel

> Website: Fermentek.com

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

#### 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.

## 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 4 H302 Harmful if swallowed

## 2.2. GHS Label elements, including precautionary statements

2.2.1. Pictogram: { ! } Signal word: {Warning }

2.2.2. Hazard Statements

H302 Harmful if swallowed

#### 2.2.3. GHS Precautionary Statements

2.2.0.	G119 1 recumonary 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

#### 2.2.4. GHS Response Phrases:

H302	Harmful if swallowed
P312	IF SWALLOWED: call a POISON CENTER/doctor IF you feel unwell.
P330	Rinse mouth.

# 3. Composition/information on ingredients

Substance	
Substance Name:	Ionomycin (Ca salt)
Concentration	<=100%
CAS Registry#:	56092-82-1
EC#:	611-357-2
Molecular Formula:	C41H70O9Ca
Molecular Weight:	747.06 g/mol
Classification	Acc O:4 (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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	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 See section 11

## 4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians 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	None known

#### 5.2. Other information

Hazardous combustion products	Carbon oxides, Nitrogene oxides, Sulfur oxides, Sulfur dihydrogene, Formula C41H70O9Ca
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.

#### 6.2. Environmental precautions

Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from
	entering drains.

## 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-













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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

#### 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, 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

Programs controls

## 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.

8.3. Personal protective equipment

[PPE=Personal Protection Equipment]













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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	Solid
temperature	
Appearance	Powder, White
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 exidizers
Possibility of Hazardous Reactions	None under normal processing















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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, Rat, LD50= 129 mg/kg
No other acute toxicity available.

Skin corrosion/irritation:

No data available

Serious eye damage/eye irritation:

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 / No data available

Teratogenicity:

#### 11.2. Additional information

RTECS number NO0650000

General symptoms No data available

# 12. Ecological Information

Eco-ToxicityNo data availableOther adverse effectsNo 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













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### 14. Transport information

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

UN Number UN proper shipping name	Not classifiable. Not hazardous for transport. (Ionomycin (Ca salt))
Transport Hazard Class & Packing Group	Not classifiable. Not hazardous for transport. (Ionomycin (Ca salt))

## 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 611-357-2
	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:* 

## 16.2. Department issuing this SDS

Quality systems and regulatory affairs

#### 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, 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.















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16.6. End of SDS













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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		
ЕСНА	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		













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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 more susceptible.

If no oral data available but subcutaneous/IV is, you can guess oral by multiplying IP by 10 or IV by 20.

Exposure	CAT 1	CAT 2	CAT 3	CAT 4
		LD50/oral/mouse	LD50/oral/mouse	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	
		<b>&amp;</b>		<b>!</b>
Packing Group	1	2	3	NDG







