



Safety Data Sheet: A23187 Ca Mg mixed salt

1. Identification of the Mixture and the Manufacturer

1.1. Product identifiers

Product name	A23187 Ca Mg mixed salt	Formula	(C ₂₉ H ₃₆ N ₃ O ₆) ₂ Mg; (C ₂₉ H ₃₆ N ₃ O ₆) ₂ Ca 1:1
Product Code	CM	RTECS	DM4676000 (Free acid)
CAS #	No CAS assigned to this mixture	Molecular weight	523.6
EC Number #	258-084-1 (Free acid)	Substance? Mixture?	Mixture
Synonyms	A23187 Ca-Mg mixed salt 1:1 Calcimycin Ca-Mg mixed salt, 1:1; Calcium Ionophore, Ca-Mg mixed salt 1:1;		
Source	Streptomyces chartreusis	Date of version	4 December, 2022

1.2. Intended uses of the Mixture and uses advised against

<p>1.2.1. Intended uses:</p> <p>Research and development. Laboratory reagent. To be used by trained professionals only For further processing</p>	<p>1.2.2. Uses advised against:</p> <p>Not a drug, Not food additive Not to be used in humans or animals.</p>
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1.3. Contacts

<p>1.3.1. Details of the manufacturer</p> <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 Website: www.fermentek.com</p>	<p>1.3.2. Emergency Telephone number</p> <p>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</p>
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This company is the manufacturer of the product, and the supplier of the safety data sheet

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)

Acute Toxicity, Oral	Cat 4	H302	Harmful if swallowed.
Acute toxicity - Dermal	Cat 4	H312	Harmful if on skin.
Acute toxicity - Inhalation (Dusts/ Mists)	Cat 4	H322	Harmful if inhaled
Skin corrosion/irritation	Cat 2	H315	Causes skin irritation
Serious eye damage/eye irritation	Cat 2	H319	Causes serious eye irritation.
Specific target organ toxicity (single exposure)	Cat 4	H335	May cause respiratory irritation.



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2.2. GHS Label elements, including precautionary statements

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

2.2.2. GHS Hazard Statements

H302 + H312 + H332	Harmful if swallowed, in contact with skin or if inhaled.
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation.

2.2.3. GHS Response Phrases

	None
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2.2.4. GHS Precautionary Statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P264	Wash {hands} thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330	Rinse mouth

2.3. Adverse Human Health Effects and Symptoms:

	None known
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2.4. Other hazards

2.4.1. Other hazards	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
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3. Composition/information on ingredients

Substance	
Substance name:	A23187 Ca Mg mixed salt/Mg mixed salt 1:1
Concentration	100%
CAS Registry#:	<hr/> No CAS assigned to this mixture <hr/>
EC#:	258-084-1 (Free acid)
Molecular Formula:	(C ₂₉ H ₃₆ N ₃ O ₆) ₂ Mg; (C ₂₉ H ₃₆ N ₃ O ₆) ₂ Ca 1:1
Molecular Weight:	523.6
Classification	Not classifiable
Mixture?	Mixture .

4. First Aid Measures

4.1. Description of First Aid Measures

General advice:	If medical attention is required, show this safety data sheet to the doctor/physician.
Inhalation:	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Ingestion:	If swallowed, seek medical advice and show this document. Clean mouth with water
Skin Contact:	Seek medical attention if irritation or symptoms occur.



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Eye contact:	Hold eyelids apart and flush eyes with plenty of water. Have eyes examined and tested by medical personnel.
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4.2. Most important symptoms and effects, both acute and delayed

Unknown
Not known

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

Note to physicians	No information available
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5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
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Unsuitable extinguishing media	Water stream may be ineffective
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5.2. Other information

Hazardous combustion products	Carbon oxides
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More information	None
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Advice for firefighters	Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit.
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6. Accidental release measures

6.1. 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. 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 powder spill with plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.
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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 powder spill with plastic sheet or tarp to minimize spreading. Sweep up and shovel into suitable containers for disposal.
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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. Store at -20 °C. Some other manufacturers may advise storing temperature 2-8 °C.
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Suitable packaging	
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Incompatible materials: None known based on information available.

8. Exposure Controls/Personal Protection

8.1. Control parameters

Control parameters	No occupational exposure limits are listed for this material.
OSHA Permissible Exposure Limits	No Data Available
NIOSH Recommended Exposure Limits	No Data Available
ACGIH Threshold Limit Values	No Data Available

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 fumehood for routine work.
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8.3. Personal protective equipment

[PPE=Personal Protection Equipment]

PPE: Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a fullface 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 must 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	Solid / powder
Color	Off White powder

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



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Hazardous decomposition products	Carbon oxides.
Solubility	Practically insoluble in water. Soluble in lower alcohols

11. Toxicological information

11.1. Information on toxicological effects

11.1.1. Acute Toxicity	LD50 Mouse, oral/dermal/by inhalation: : No data reported
11.1.2. Information on likely routes of exposure	
Skin corrosion/irritation:	No data available
Serious eye damage/eye irritation:	No data available
Respiratory or skin sensitization/corrosion:	No data available
11.1.3. CMR hazards (Carcinogenic, mutagenic, reprotoxic)	
Mutagenicity	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity / Teratogenicity:	No data available
STOT-SE – single exposure	No data available
STOT-SE – repeated exposure	No data available
Aspiration hazard:	No data available

11.2. Additional information

RTECS number	DM4676000
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12. Ecological Information

Persistence and degradability	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Other adverse effects	No further relevant information available.

13. Disposal Considerations

13.1. Waste treatment methods

Waste from residues / unused products	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

	US DOT	IATA	IMDG	ADR/RID
UN Number UN proper shipping name	Not hazardous for transportation (A23187 Ca Mg mixed salt)	Not hazardous for transportation (A23187 Ca Mg mixed salt)	Not hazardous for transportation (A23187 Ca Mg mixed salt)	Not hazardous for transportation (A23187 Ca Mg mixed salt)



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Transport Hazard Class & Packing Group	Not regulated	Not regulated	Not regulated	Not regulated
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15. Regulatory information

15.1. Product-specific safety, health, and environmental regulations/legislation

USA EPA / TSCA	This product is not listed on the USA EPA TSCA (it is for research)
California proposit. 65	This product is not listed on California proposit. 65 as on Jan 3, 2020
EU ECHA Status	This product is on the EU ECHA, Number 258-084-1 (Free acid) REACH: Pregistered , ANNEX III: Listed.
Canada	This product is not listed on the Canadian DSL/NDSL

16. Other information

16.1. Department issuing this SDS

Quality systems and regulatory affairs

16.2. 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.

16.3. 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.

16.4. Comments:

16.5. No-Copyright statement



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16.6. 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



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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

16.7. End of SDS