

Printing date 07/25/2019

Reviewed on 07/25/2019

1 Identification

- · Product identifier
- · Trade name: Sisomicin Sulfate Salt
- · Article number: 156626
- · CAS Number:
- 53179-09-2
- · Molecular Formula (C19H37N5O7)2 · 5H2SO4
- Molecular Weight 1,385.45
- · Application of the substance / the mixture For Research Use Only
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: MP Biomedicals, LLC 29525 Fountain Parkway Solon, OH 44139 United States www.mpbio.com
- Information department: Quality Control Department
- Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2 Hazard(s) identification

· Classification of the substance or mixture



Repr. 1B H360 May damage fertility or the unborn child.



Acute Tox. 4 H312 Harmful in contact with skin. Acute Tox. 4 H332 Harmful if inhaled.

Acute Tox. 4 H552 Harmjul ij innalea.

· Label elements

• *GHS label elements* The substance is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Danger

Hazard-determining components of labeling: Sisomicin Sulfate Salt
Hazard statements Harmful in contact with skin or if inhaled. May damage fertility or the unborn child.
Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray

(Contd. on page 2)

US

Printing date 07/25/2019

Reviewed on 07/25/2019

Trade name: Sisomicin Sulfate Salt

only outdoors or in a well-ventilated area. ar protective gloves/protective clothing/eye protection/face protection. a skin: Wash with plenty of water. WHALED: Remove person to fresh air and keep comfortable for breathing. Exposed or concerned: Get medical advice/attention. I a poison center/doctor if you feel unwell. cific treatment (see on this label). e off contaminated clothing and wash it before reuse. re locked up. pose of contents/container in accordance with local/regional/national/international regulati ssification system: PA ratings (scale 0 - 4) Health = 2 Fire = 0 Reactivity = 0	ons.
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ACTIVITY $\boxed{0}$ Reactivity = 0	
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ults of PBT and vPvB assessment	
F : Not applicable.	
B: Not applicable.	

· CAS No. Description

53179-09-2 Sisomicin Sulfate Salt

4 First-aid measures

- · Description of first aid measures
- · General information:
- Consult your Doctor. Show the safety data sheet to the Doctor. Away from the dangerous area.
- After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. If breathed in, supply fresh air. If not breathing, give artificial respiration. Consult a Doctor.

- After skin contact: Immediately rinse with water.
- After eye contact: Flush eyes with running water as a precaution.
- After swallowing: If symptoms persist consult doctor.
- · Information for doctor
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

(Contd. on page 3)

Printing date 07/25/2019

Reviewed on 07/25/2019

Trade name: Sisomicin Sulfate Salt

(Contd. of page 2)

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

· Personal precautions, protective equipment and emergency procedures

6 Accidental release measures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8. • Environmental precautions: Do not allow to enter sewers/ surface or ground water. • Methods and material for containment and cleaning up: Pick up mechanically, dispose contaminated material as waste according to Section 13. Ensure adequate ventilation. · Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information. · Protective Action Criteria for Chemicals · PAC-1: Substance is not listed. · PAC-2: Substance is not listed. · PAC-3: Substance is not listed.

7 Handling and storage

· Handling:

· Precautions for safe handling

Thorough dedusting.

Ensure good ventilation/exhaustion at the workplace. Avoid direct contact with skin and eyes. Open and handle receptacle with care.

- · Information about protection against explosions and fires: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities

· Storage: 2-8°C

- Requirements to be met by storerooms and receptacles: No special requirements.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see Section 7.

· Control parameters

· Components with limit values that require monitoring at the workplace: Not required.

(Contd. on page 4)

US

Printing date 07/25/2019

Reviewed on 07/25/2019

Trade name: Sisomicin Sulfate Salt

	(Contd. of page 3)
Additional information: The lists that were valid during the creation were used as basis.	
Exposure controls	
Personal protective equipment:	
General protective and hygienic measures:	
Keep away from foodstuffs, beverages and feed.	
Immediately remove all soiled and contaminated clothing.	
Wash hands before breaks and at the end of work.	
Store protective clothing separately.	
Avoid contact with the eyes and skin.	
Breathing equipment:	
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or a respiratory protective device that is independent of circulating air.	longer exposure use
Protection of hands:	
Protective gloves	
The glove material has to be impermeable and resistant to the product/ the substance/ the prep	aration.
Due to missing tests no recommendation to the glove material can be given for the product/ t chemical mixture.	
Selection of the glove material on consideration of the penetration times, rates of diffusion and	the degradation
Material of gloves	Ũ
The selection of the suitable gloves does not only depend on the material, but also on further n	narks of quality and
varies from manufacturer to manufacturer.	* * *
Penetration time of glove material	
The exact break through time has to be found out by the manufacturer of the protective of	loves and has to be

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection: Not required.

9 Physical and chemical properties

General Information		
Appearance:		
Form:	Powder	
Color:	Off-White	
Odor:	Indeterminate	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Boiling point/Boiling range:	Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Product is not flammable.	
Decomposition temperature:	Not determined.	
Auto igniting:	Not determined.	
Danger of explosion:	See section 10	

Printing date 07/25/2019

Reviewed on 07/25/2019

Trade name: Sisomicin Sulfate Salt

		(Contd. of page
· Explosion limits:		
Lower:	Not Applicable	
Upper:	Not Applicable	
· Vapor pressure:	Not applicable.	
· Density:	Not Applicable	
· Relative density	Not determined.	
· Vapor density	Not applicable.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with	Not Determined	
· Water:	Not determined.	
	Insoluble.	
· Partition coefficient (n-octanol/wa	t ter): Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
VOC content:	0.00 %	
Solids content:	100.0 %	
• Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid
- No further relevant information available.
- Avoid contact with acids. Contact liberates a toxic gas.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Dermal LD50 1,100 mg/kg Inhalative LC50/4 h 1.5 mg/L

53179-09-2 Sisomicin Sulfate Salt

 Dermal
 LD50
 1,100 mg/kg (ATE)

 Inhalative
 LC50/4 h
 1.5 mg/L (ATE)

· Primary irritant effect:

• on the skin: No irritant effect.

• on the eye: Irritant and potentially harmful

(Contd. on page 6)

[–] US

Printing date 07/25/2019

Reviewed on 07/25/2019

Trade name: Sisomicin Sulfate Salt

(Contd. of page 5)

- Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:

· General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- *Recommendation:* Can not be disposed together with household garbage. Do not allow product to reach sewage system.
- · Uncleaned packagings:
- *Recommendation:* Discard must be made according to official regulations.

· UN-Number · DOT, ADR, IMDG, IATA	Not regulated	
· UN proper shipping name		
DOT, ADR, IMDG, IATA	Not regulated	
Transport hazard class(es)		
DOT, ADR, IMDG, IATA		
· Class	Not regulated	

Printing date 07/25/2019

Reviewed on 07/25/2019

Trade name: Sisomicin Sulfate Salt

		(Contd. of page 6)
· Packing group · DOT, ADR, IMDG, IATA	Not regulated	
· Environmental hazards:	Not applicable.	
· Special precautions for user	Not applicable.	
• Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.	
· UN "Model Regulation":	Not regulated	

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

• Section 355 (extremely hazardous substances):

Substance is not listed.

· Section 313 (Specific toxic chemical listings):

Substance is not listed.

• TSCA (Toxic Substances Control Act):

Substance is not listed.

· Hazardous Air Pollutants

Substance is not listed.

· Proposition 65

 \cdot Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

Substance is not listed.

· TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

 \cdot NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

• GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 8)

Printing date 07/25/2019

Reviewed on 07/25/2019

Trade name: Sisomicin Sulfate Salt

	(Contd. of page
Hazard pictograms	
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GHS07 GHS08	
011507 011508	
Signal word Danger	
Hazard-determining components of labeling:	
Sisomicin Sulfate Salt	
Hazard statements	
Harmful in contact with skin or if inhaled.	
May damage fertility or the unborn child.	
Precautionary statements	
Obtain special instructions before use.	
Do not handle until all safety precautions have been read and understood.	
Avoid breathing dust/fume/gas/mist/vapors/spray	
Use only outdoors or in a well-ventilated area.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If on skin: Wash with plenty of water.	
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
IF exposed or concerned: Get medical advice/attention.	
Call a poison center/doctor if you feel unwell.	
Specific treatment (see on this label).	
Take off contaminated clothing and wash it before reuse.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regulation	ıs.
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Quality Control Dept.

· Date of preparation / last revision 07/25/2019 / -

• Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Acute Tox. 4: Acute toxicity - Category 4 Repr. 1B: Reproductive toxicity - Category 1B