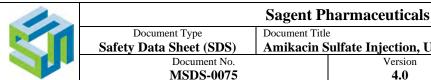
SAFETY DATA SHEETS

This SDS packet was issued with item:

078951794

N/A



Amikacin Sulfate Injection, USP

Version 4.0

Effective Date 27 Sep 2023

Section 1 - Identification

(a) Product Identifier: Amikacin Sulfate Injection, USP (b) **NDC**: 25021-173-02, 25021-173-04

Common/Trade Name: N/A

Chemical Name: 0-3-amino-3-deoxy-a-D-glucopyranosyl-(1#4)-O-[6-amino-6-

> deoxy-a-D-glucopyranosyl-(1#6)]-N3-(4-amino-L-2hydroxybutyryl)-2-deoxy-Lstreptamine sulfate (1:2)

Chemical Family: Aminoglycoside Antibiotic

(c) Product Use: Short-term treatment of serious infections due to susceptible

> strains of Gram-negative bacteria, including Pseudomonas species, Escherichia coli, species of indole-positive and indole-

negative.

Product Type: Regulated Prescription Drug

Container Information: Pre-filled glass vial

Sagent Pharmaceuticals, 1901 N. Roselle Rd, Suite 450, (d) Distributor:

Schaumburg, IL 60195, 847-908-1600

866-625-1618 (e) Emergency Telephone:

Section 2 - Hazards Identification

Classification: U.S. OSHA Possible Sensitizer (a) Classification Target Organ Toxin

Possible Irritant.

(b) Signal Word,

Hazard statement(s),

Symbol(s), and/or

Precautionary statement(s):

Hazard Statements	Aminoglycosides may cause potential ototoxicity and nephrotoxicity, as well as fetal harm, allergic-type reactions, and associate diarrhea. Please reference package insert for additional information.
Precautionary statements	P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

(c) **Description of Hazards:** N/A

(d) Unknown Acute Toxicity: N/A

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Section 3 – Composition / Information on Ingredients

500 mg/2 mL vial and 1g/4mL vial contains per each mL:

(a) Chemical Name	(b) Common Name / Synonym	% Composition or other measure	(c) CAS No.	(d) Impurities / Stabilizing Additives
Amikacin Sulfate	Amikacin Sulfate	21.12	39831-55-5	N/A
Timiladii Sairate	Timilaem Sanate	21.12	37031 33 3	N/A
Sodium Citrate Dihydrate	Sodium Citrate Dihydrate	2.048	18996-35-5	- "
Sodium Metabisulfite	Sodium Metabisulfite	.54	7681-57-4	N/A
Water for injection	Water	76.14	7732-18-5	N/A

Section 4 - First Aid Measures

Eye Exposure: Remove from source of exposure. Flush with copious amounts of

water for at least 15 minutes. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care

as necessary.

Skin Exposure: Remove contaminated shoes and clothing and cleanse affected area(s)

thoroughly by washing with mild soap and water. If irritation or

redness develops and persists, seek medical attention.

Ingestion: If swallowed, seek emergency medical attention. If victim is drowsy

or unconscious and vomiting, place on the left side with the head down and DO NOT give anything by mouth. If not vomiting and professional advice is not available, DO NOT induce vomiting. If possible, do not leave victim unattended and observe closely for

adequacy of breathing.

Injection: N/A

Inhalation: If respiratory symptoms develop, move victim away from source of

exposure and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate

medical attention.

Notes to Physician: See patient package insert in shipping carton for complete

information.

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Section 5 – Fire-fighting Measures

(a) Extinguishing Media Use extinguishing agent suitable for type of surrounding fire.

Water spray, Carbon Dioxide, Halon, Foam, Dry Chemical, and

any "ABC" Class extinguishers.

(b) Hazardous

Combustion Products:

None anticipated for this aqueous product

(c) Special Protective

Equipment / Precautions:

No special provisions required beyond normal firefighting equipment such as flame and chemical resistant clothing and

self-contained breathing apparatus.

Section 6 - Accidental Release Measures

Spill: Isolate area around spill. Put on suitable protective clothing and

equipment as specified by site spill procedures. Absorb the liquid with suitable material and clean affected area with soap and water. Dispose of spill materials according to the applicable federal, state, or

local regulations.

Release to Air: N/A

Release to Water: N/A

Section 7 - Handling and Storage

General Handling: No special handling required under conditions of normal product use.

Storage Conditions: Store at 20° to 25°C (68° to 77°F). For product protection, follow

storage recommendations noted on the product case label, the

primary container label, or the product insert.

Section 8 - Exposure Controls / Personal Protection

(a) Exposure Limits

Compound	Issuer	Type	Exposure Limit
Amikacin	OSHA	PEL	Not available
	ACGIH	TLV	Not available
Sodium citrate dehydrate	OSHA	PEL	Not available

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	ACGIH	TLV	Not available
Sodium metabisulfite	OSHA	PEL	Not available
	ACGIH	TLV	5 mg/m^3
Water for injection	OSHA	PEL	Not available
	ACGIH	TLV	Not available

(b) Engineering Controls

Ventilation: N/A

(c) Individual Protection Measures

Respiratory	Respiratory protection is normally not needed during intended
Protection:	product use. However, if the generation of aerosols is likely, and engineering controls are not considered adequate to control potential airborne exposures, the use of an approved air-purifying respirator with a HEPA cartridge (N95 or equivalent) is recommended under conditions where airborne aerosol concentrations are not expected to be excessive. For uncontrolled release events, or if exposure levels are not known, provide respirators that offer a high protection factor such as a powered air purifying respirator or supplied air. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions require respirator use. Personnel who wear respirators should be fit tested and approved for respirator use as required.
Eye Protection:	Eye protection is normally not required during intended product use. However, if eye contact is likely to occur, the use of chemical safety goggles (as a minimum) is recommended
Skin Protection:	If skin contact with the product formulation is likely, the use of latex or nitrile gloves is recommended.
Other Protective Equipment:	N/A
Additional Exposure Precautions:	N/A

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Section 9 - Physical and Chemical Properties

(a)	Appearance	Liquid; Colorless to light straw
(b)	Odor	N/A
(c)	Odor Threshold	N/A
(d)	рН	4.5 (3.5 to 5.5)
(e)	Melting Point:	N/A
(f)	Initial Boiling Point:	N/A
(g)	Flash Point	N/A
(h)	Evaporation Rate:	N/A
(i)	Flammability	N/A
(j)	Upper Lower Flammability or Explosion Limits	N/A
(k)	Vapor Pressure:	N/A
(l)	Vapor Density:	N/A
(m)	Relative Density	N/A
(n)	Solubility(ies)	N/A
(0)	Partition Coefficient: n-octanol/water	N/A
(p)	Auto-ignition Temperature	N/A
(q)	Decomposition Temperature	N/A
(r)	Viscosity	N/A

Section 10 - Stability and Reactivity

(a)	Reactivity	Not determined
(b)	Chemical Stability	Stable under standard use and storage conditions.
(c)	Possibility of Hazardous Reactions	Not determined
(d)	Conditions to Avoid	Not determined
(e)	Incompatible Materials	Not determined

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Section 11 - Toxicological Information

(a)	Likely Routes of Exposure	njection, Ingestion, skin, eye.	
(b)	Symptoms related to the physical, chemical and toxicological characteristics	Injection: Local redness, swelling and/or pain; Flu-like symptoms, dizziness, loss of balance and hearing loss. Skin: redness, itching burning, skin damage Eyes: stinging, watering, redness, swelling See package insert for more information.	
(c)	Delayed and immediate effects and also chronic effects from short and long term exposure	Primary health effects include irritation of eyes and skin, and local swelling after injection (See above symptoms). Chronic overexposure: may cause damage to hearing, kidneys and nervous system. See package insert for more information.	

(d) Acute Toxicity

Component	Type	Route	Species	Dosage
Amikacin Sulfate	LD ₅₀	Oral	Mouse	>10,679 mg/Kg
			Rat	>4000 mg/Kg
			Rabbit	>3000 mg/Kg
Amikacin Sulfate	LD ₅₀	Intravenous	Mouse	181 mg/Kg
			Rat	234 mg/Kg
			Rabbit	248 mg/Kg
			Dog	383 mg/Kg
Sodium Citrate Dihydrate	N/A	N/A	N/A	N/A

(e) Hazardous Chemical Listings

NTP: No IARC: No OSHA: No NIOSH Listed: No

Section 12 - Ecological Information

(a)	Ecotoxicity	N/A
(b)	Persistence and degradability	Not determined for product.
(c)	Bioaccumulative potential	Not determined for product.
(d)	Mobility in soil	Not determined for product.
(e)	Other Adverse Effects	Not determined for product.

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Section 13 - Disposal Considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging.

Section 14 - Transport Information

DOT: Not regulated IMDG: Not regulated ICAO/ IATA: Not regulated

Section 15 - Regulatory Information

Below is selected regulatory information chosen primarily for possible Sagent usage. This section is not a complete analysis or reference to all applicable regulatory information. Please consider all applicable laws and regulations for your country/state.

U.S. Regulations:

TSCA: No

CERCLA: Not on this list SARA 302: Not on this list SARA 313: Not on this list

Section 16 - Other Information

As of the date of issuance, we are providing available information relevant to the handling of this material in the workplace. All information contained herein is offered with the good faith belief that it is accurate. THIS SAFETY DATA SHEET SHALL NOT BE DEEMED TO CREATE ANY WARRANTY OF ANY KIND (INCLUDING WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE). In the event of an adverse incident associated with this material, this safety data sheet is not intended to be a substitute for consultation with appropriately trained personnel. Nor is this safety data sheet intended to be a substitute for product literature which may accompany the finished product.

For additional information contact: Sagent Pharmaceuticals 1901 N. Roselle Rd, Suite 450 Schaumburg, IL 60195 847-908-1600

Glossary: This glossary contains definitions of general terms used in SDSs. Not all of these Glossary Terms will apply to this SDS.

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AICS Australian Inventory of Chemical Substances AIHA American Industrial Hygiene Association ANSI American National Standards Institute CAS Number Chemical Abstract Service Registry Number CERCLA Comprehensive Environmental Response Compensation and Liability Act (of 1980) CHAN Chemical Hazard Alert Notice CHEMTREC Chemical Transportation Emergency Center DOT Department of Transportation DSL Domestic Substances List ECHA European Chemicals Agency EINECS European Inventory of Existing Commercial Chemical Substances ELINCS European Inventory of Existing Commercial Chemical Substances ELINCS European Inventory of Existing Commercial Substances ELINCS European Inventory of Existing Commercial Substances ELINCS Hygiene Environmental Protection Agency GHS Globally Harmonized System of Classification and Labelling of Chemicals HEPA High Efficiency Particulate Air (Filter) HMIS Hazardous Materials Identification System IARC International Agency for Research on Cancer ICAO/IATA International Agency for Research on Cancer ICAO/IATA International Civil Aviation Organization/International Air Transport Association IMO International Maritime Organization KOW Octanol/Water Partition Coefficient LEL Lower Explosive Limit MSDS Material Safety Data Sheet MSHA Mine Safety and Health Administration NA Not Applicable, except in Section 14 where NA = North America NE Not Established NADA New Animal Drug Application NAIF No Applicable Information Found NCI National Cancer Institute NDSL Non-Domestic Substances List NFPA National Fire Protection Association NIOSH National Institute for Occupational Safety and Health NPDES National Follutant Discharge Elimination System NOS Not Otherwise Specified NTP National Toxicology Program OSHA Occupational Exposure Limit (OSHA) RCRA Resource Conservation and Recovery Act	ACGIH	American Conference of Governmental Industrial Hygienists		
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	1		Sagent Pl	harmaceuticals	
		Document Type	Document Title		
1		Safety Data Sheet (SDS)	Amikacin S	ulfate Injection, USP	
1		Document No.		Version	Effective Date
		MSDS-0075		4.0	27 Sep 2023

RTECS	Registry of Toxic Effects of Chemical Substances
SARA	Superfund Amendments and Reauthorization Act
SDS	Safety Data Sheet
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value (ACGIH)
TPQ	Threshold Planning Quantity
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average/8 Hours Unless Otherwise Noted
UEL	Upper Explosive Limit
UN	United Nations
USP	United States Pharmacopeia
WEEL	Workplace Environmental Exposure Level (AIHA)
WHMIS	Workplace Hazardous Materials Information System