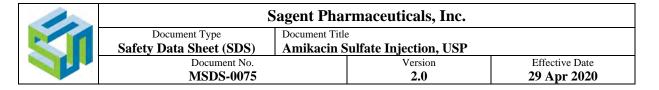
# **SAFETY DATA SHEETS**

# This SDS packet was issued with item:

078951794

N/A



**Section 1 - Identification** 

(a) **Product Identifier:** Amikacin Sulfate Injection, USP

**(b) NDC**: 25021-173

**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-2-hydroxybutyryl)-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

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

Schaumburg, IL 60195, 847-908-1600

(e) Emergency Telephone: 866-625-1618

#### **Section 2 - Hazards Identification**

(a) Classification: U.S. OSHA Possible Sensitizer

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

Previous Document No	Confidential - For Use Only By Affiliates	Page
SDS077	of Sagent Pharmaceuticals, Inc.	Page 1 of 9



### **Sagent Pharmaceuticals, Inc.**

Document Type Document Title

Safety Data Sheet (SDS) Amikacin Sulfate Injection, USP

Document No. Version

Document No. Version Effective Date
MSDS-0075 2.0 29 Apr 2020

### 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
			0,000	N/A
Sodium Citrate	Sodium Citrate	2.048	18996-35-5	
Dihydrate	Dihydrate			
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.

Previous Document No	Confidential - For Use Only By Affiliates	Page
SDS077	of Sagent Pharmaceuticals, Inc.	Page 2 of 9

#### 

### **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

Previous Document No	Confidential - For Use Only By Affiliates	Page
SDS077	of Sagent Pharmaceuticals, Inc.	Page 3 of 9



	ACGIH	TLV	Not available
Sodium metabisulfite	OSHA	DEI	Not available
Soutum metabisanite	ACGIH	TLV	$\frac{1 \text{Not available}}{5 \text{ mg/m}^3}$
Water for injection	OSHA	PEL	Not available
	ACGIH	TLV	Not available

## (b) Engineering Controls

Ventilation: N/A

### (c) Individual Protection Measures

Respiratory Protection:	Respiratory protection is normally not needed during intended 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

Previous Document No	Confidential - For Use Only By Affiliates	Page
SDS077	of Sagent Pharmaceuticals, Inc.	Page 4 of 9



### Sagent Pharmaceuticals, Inc.

Document Type
Safety Data Sheet (SDS)
Document Title
Amikacin Su

Amikacin Sulfate Injection, USP

Version

Document No. MSDS-0075

2.0

Effective Date 29 Apr 2020

### Section 9 - Physical and Chemical Properties

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

### Section 10 - Stability and Reactivity

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

Previous Document No	Confidential - For Use Only By Affiliates	Page
SDS077	of Sagent Pharmaceuticals, Inc.	Page 5 of 9



## Sagent Pharmaceuticals, Inc.

Document Type
Safety Data Sheet (SDS)
Document Title
Amikacin St

Document No. MSDS-0075

Amikacin Sulfate Injection, USP
Version

75 2.0

Effective Date
29 Apr 2020

### **Section 11 - Toxicological Information**

(a)	Likely Routes of Exposure	Injection, 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 <sub>50</sub>	Oral	Mouse	>10,679 mg/Kg
			Rat	>4000 mg/Kg
			Rabbit	>3000 mg/Kg
Amikacin Sulfate	LD <sub>50</sub>	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>(b)</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.

Previous Document No	Confidential - For Use Only By Affiliates	Page
SDS077	of Sagent Pharmaceuticals, Inc.	Page 6 of 9

#### 

#### **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

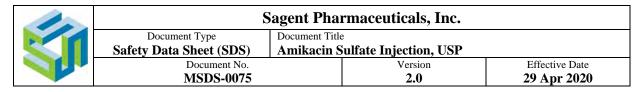
### **Section 16 - Other Information**

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, Inc. 1901 N. Roselle Rd, Suite 450 Schaumburg, IL 60195 847-908-1600

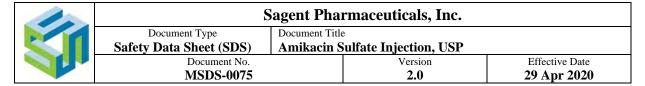
**Glossary:** This glossary contains definitions of general terms used in SDSs. Not all of these Glossary Terms will apply to this SDS.

Previous Document No	Confidential - For Use Only By Affiliates	Page
SDS077	of Sagent Pharmaceuticals, Inc.	Page 7 of 9



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 List of Notified Chemical Substances ELINCS European Listing Official List of Chemical Substances International Agency for Research on Cancer ICAO/IATA Interna	ACGIH	American Conference of Governmental Industrial Hygienists	
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 Ichemicals Agency EINECS European Inventory of Existing Commercial Chemical Substances ELINCS European Inventory of Existing Commercial Chemical Substances EINECS European Inventory of Existing Commercial Chemical Substances EINECS European Inventory of Existing Commercial Chemical Substances EINECS European List of Notified Chemical Substances EINECS European List of Notified Chemical Substances EINECS European List of Notified Chemical Substances EINECS Eliopean List of Notified Chemical Substances EINECS Eliopean List of Notified Chemical Substances EINECS Eliopean List of Notified Chemical Substances EINECS 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 Anational Agency	AICS		
ANSI Chemical National Standards Institute CAS Number CERCLA 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 List of Notified Chemical Substances ELINCS European List of Notified Chemical Substances EPA 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 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 Pollutant Discharge Elimination System NOS Not Otherwise Specified NTP National Toxicology Program OSHA Occupational Exposure Limit (OSHA) RCRA Resource Conservation and Recovery Act			
CAS 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 List of Notified Chemical Substances ELINCS European List of Notified Chemical Substances ELINCS European List of Notified Chemical Substances EPA 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 Maritime 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 Oscopational Safety and Health NPDES National Toxicology Program OSHA Occupational Safety and Health Administration OEL Occupational Safety and Health Administration OEL Occupational Safety portam OSHA Occupational Safety and Health Administration OEL Occupational Exposure Limit (OSHA) RCRA Resource Conservation and Recovery Act			
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 List of Notified Chemical Substances ELINCS European List of Notified Chemical Substances ELINCS European List of Notified Chemical Substances EPA 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 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 Pollutant Discharge Elimination System NOS Not Otherwise Specified NTP National Toxicology Program OSHA Occupational Exposure Limit (OSHA) RCRA Resource Conservation and Recovery Act			
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 List of Notified Chemical Substances ELINCS European List of Notified Chemical Substances ELINCS European List of Notified Chemical Substances EPA 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 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 Pollutant Discharge Elimination System NOS Not Otherwise Specified NTP National Toxicology Program OSHA Occupational Safety and Health Administration OEL Occupational Exposure Limit (OSHA) RCRA Resource Conservation and Recovery Act			
CHEMTREC         Chemical Transportation           DOT         Department of Transportation           DSL         Domestic Substances List           ECHA         European Chemicals Agency           EINECS         European List of Notified Chemical Substances           ELINCS         European List of Notified Chemical Substances           EPA         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 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           <			
DOT Department of Transportation DSL Domestic Substances List ECHA European Chemicals Agency EINECS European Inventory of Existing Commercial Chemical Substances ELINCS European List of Notified Chemical Substances ELINCS European List of Notified Chemical Substances EPA 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 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 Pollutant Discharge Elimination System NOS Not Otherwise Specified NTP National Toxicology Program OSHA Occupational Safety and Health Administration OEL Occupational Exposure Limit PEL Permissible Exposure Limit (OSHA) RCRA Resource Conservation and Recovery Act	CHAN	Chemical Hazard Alert Notice	
DSL Domestic Substances List ECHA European Chemicals Agency EINECS European List of Notified Chemical Substances ELINCS European List of Notified Chemical Substances ELINCS European List of Notified Chemical Substances EPA 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 Maritime 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 Fire Protection Association NIOSH National Fire Protection Association NOS Not Otherwise Specified NTP National Toxicology Program OSHA Occupational Exposure Limit (OSHA) RCRA Resource Conservation and Recovery Act	CHEMTREC	Chemical Transportation Emergency Center	
ECHA European Chemicals Agency  EINECS European Inventory of Existing Commercial Chemical Substances  ELINCS European List of Notified Chemical Substances  EPA 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 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 Fire Protection Association  NIOSH National Institute for Occupational Safety and Health  NPDES National Pollutant Discharge Elimination System  NOS Not Otherwise Specified  NTP National Toxicology Program  OSHA Occupational Safety and Health Administration  OEL Occupational Exposure Limit (OSHA)  RCRA Resource Conservation and Recovery Act	DOT	Department of Transportation	
EINECS European Inventory of Existing Commercial Chemical Substances  ELINCS European List of Notified Chemical Substances  EPA 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 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 Pollutant Discharge Elimination System  NOS Not Otherwise Specified  NTP National Toxicology Program  OSHA Occupational Exposure Limit  PEL Permissible Exposure Limit (OSHA)  RCRA Resource Conservation and Recovery Act	DSL	Domestic Substances List	
ELINCS European List of Notified Chemical Substances  EPA 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 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 Pollutant Discharge Elimination System NOS Not Otherwise Specified NTP National Toxicology Program OSHA Occupational Safety and Health Administration OEL Occupational Exposure Limit PEL Permissible Exposure Limit (OSHA) RCRA Resource Conservation and Recovery Act	ECHA	European Chemicals Agency	
ELINCS European List of Notified Chemical Substances  EPA 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 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 Pollutant Discharge Elimination System NOS Not Otherwise Specified NTP National Toxicology Program OSHA Occupational Safety and Health Administration OEL Occupational Exposure Limit PEL Permissible Exposure Limit (OSHA) RCRA Resource Conservation and Recovery Act	EINECS	European Inventory of Existing Commercial Chemical Substances	
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 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 Pollutant Discharge Elimination System  NOS Not Otherwise Specified  NTP National Toxicology Program  OSHA Occupational Safety and Health Administration  OEL Occupational Exposure Limit  PEL Permissible Exposure Limit (OSHA)  RCRA Resource Conservation and Recovery Act	ELINCS		
HEPA High Efficiency Particulate Air (Filter)  HMIS Hazardous Materials Identification System  IARC 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 Pollutant Discharge Elimination System  NOS Not Otherwise Specified  NTP National Toxicology Program  OSHA Occupational Safety and Health Administration  OEL Occupational Exposure Limit  PEL Permissible Exposure Limit (OSHA)  RCRA Resource Conservation and Recovery Act	EPA	Environmental Protection Agency	
HMIS Hazardous Materials Identification System  IARC 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 Pollutant Discharge Elimination System  NOS Not Otherwise Specified  NTP National Toxicology Program  OSHA Occupational Safety and Health Administration  OEL Occupational Exposure Limit  PEL Permissible Exposure Limit (OSHA)  RCRA Resource Conservation and Recovery Act	GHS		
IARC 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 Pollutant Discharge Elimination System NOS Not Otherwise Specified NTP National Toxicology Program OSHA Occupational Safety and Health Administration OEL Occupational Exposure Limit PEL Permissible Exposure Limit (OSHA) RCRA Resource Conservation and Recovery Act	HEPA	High Efficiency Particulate Air (Filter)	
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 Pollutant Discharge Elimination System  NOS Not Otherwise Specified  NTP National Toxicology Program  OSHA Occupational Safety and Health Administration  OEL Occupational Exposure Limit  PEL Permissible Exposure Limit (OSHA)  RCRA Resource Conservation and Recovery Act	HMIS	Hazardous Materials Identification System	
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 Pollutant Discharge Elimination System  NOS Not Otherwise Specified  NTP National Toxicology Program  OSHA Occupational Safety and Health Administration  OEL Occupational Exposure Limit  PEL Permissible Exposure Limit (OSHA)  RCRA Resource Conservation and Recovery Act	IARC	International Agency for Research on Cancer	
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 Pollutant Discharge Elimination System  NOS Not Otherwise Specified  NTP National Toxicology Program  OSHA Occupational Safety and Health Administration  OEL Occupational Exposure Limit  PEL Permissible Exposure Limit (OSHA)  RCRA Resource Conservation and Recovery Act	ICAO/IATA	International Civil Aviation Organization/International Air Transport	
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 Pollutant Discharge Elimination System  NOS Not Otherwise Specified  NTP National Toxicology Program  OSHA Occupational Safety and Health Administration  OEL Occupational Exposure Limit  PEL Permissible Exposure Limit (OSHA)  RCRA Resource Conservation and Recovery Act		Association	
LELLower Explosive LimitMSDSMaterial Safety Data SheetMSHAMine Safety and Health AdministrationNANot Applicable, except in Section 14 where NA = North AmericaNENot EstablishedNADANew Animal Drug ApplicationNAIFNo Applicable Information FoundNCINational Cancer InstituteNDSLNon-Domestic Substances ListNFPANational Fire Protection AssociationNIOSHNational Institute for Occupational Safety and HealthNPDESNational Pollutant Discharge Elimination SystemNOSNot Otherwise SpecifiedNTPNational Toxicology ProgramOSHAOccupational Safety and Health AdministrationOELOccupational Exposure LimitPELPermissible Exposure Limit (OSHA)RCRAResource Conservation and Recovery Act	IMO	International Maritime Organization	
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 Pollutant Discharge Elimination System  NOS Not Otherwise Specified  NTP National Toxicology Program  OSHA Occupational Safety and Health Administration  OEL Occupational Exposure Limit  PEL Permissible Exposure Limit (OSHA)  RCRA Resource Conservation and Recovery Act	KOW	Octanol/Water Partition Coefficient	
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 Pollutant Discharge Elimination System  NOS Not Otherwise Specified  NTP National Toxicology Program  OSHA Occupational Safety and Health Administration  OEL Occupational Exposure Limit  PEL Permissible Exposure Limit (OSHA)  RCRA Resource Conservation and Recovery Act	LEL	Lower Explosive Limit	
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 Pollutant Discharge Elimination System  NOS Not Otherwise Specified  NTP National Toxicology Program  OSHA Occupational Safety and Health Administration  OEL Occupational Exposure Limit  PEL Permissible Exposure Limit (OSHA)  RCRA Resource Conservation and Recovery Act	MSDS	Material Safety Data Sheet	
NENot EstablishedNADANew Animal Drug ApplicationNAIFNo Applicable Information FoundNCINational Cancer InstituteNDSLNon-Domestic Substances ListNFPANational Fire Protection AssociationNIOSHNational Institute for Occupational Safety and HealthNPDESNational Pollutant Discharge Elimination SystemNOSNot Otherwise SpecifiedNTPNational Toxicology ProgramOSHAOccupational Safety and Health AdministrationOELOccupational Exposure LimitPELPermissible Exposure Limit (OSHA)RCRAResource Conservation and Recovery Act	MSHA	Mine Safety and Health Administration	
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 Pollutant Discharge Elimination System NOS Not Otherwise Specified NTP National Toxicology Program OSHA Occupational Safety and Health Administration OEL Occupational Exposure Limit PEL Permissible Exposure Limit (OSHA) RCRA Resource Conservation and Recovery Act	NA	Not Applicable, except in Section 14 where NA = North America	
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 Pollutant Discharge Elimination System  NOS Not Otherwise Specified  NTP National Toxicology Program  OSHA Occupational Safety and Health Administration  OEL Occupational Exposure Limit  PEL Permissible Exposure Limit (OSHA)  RCRA Resource Conservation and Recovery Act	NE	Not Established	
NCI National Cancer Institute  NDSL Non-Domestic Substances List  NFPA National Fire Protection Association  NIOSH National Institute for Occupational Safety and Health  NPDES National Pollutant Discharge Elimination System  NOS Not Otherwise Specified  NTP National Toxicology Program  OSHA Occupational Safety and Health Administration  OEL Occupational Exposure Limit  PEL Permissible Exposure Limit (OSHA)  RCRA Resource Conservation and Recovery Act	NADA	New Animal Drug Application	
NCI National Cancer Institute  NDSL Non-Domestic Substances List  NFPA National Fire Protection Association  NIOSH National Institute for Occupational Safety and Health  NPDES National Pollutant Discharge Elimination System  NOS Not Otherwise Specified  NTP National Toxicology Program  OSHA Occupational Safety and Health Administration  OEL Occupational Exposure Limit  PEL Permissible Exposure Limit (OSHA)  RCRA Resource Conservation and Recovery Act	NAIF	No Applicable Information Found	
NFPA National Fire Protection Association  NIOSH National Institute for Occupational Safety and Health  NPDES National Pollutant Discharge Elimination System  NOS Not Otherwise Specified  NTP National Toxicology Program  OSHA Occupational Safety and Health Administration  OEL Occupational Exposure Limit  PEL Permissible Exposure Limit (OSHA)  RCRA Resource Conservation and Recovery Act	NCI		
NIOSH National Institute for Occupational Safety and Health NPDES National Pollutant Discharge Elimination System  NOS Not Otherwise Specified  NTP National Toxicology Program  OSHA Occupational Safety and Health Administration  OEL Occupational Exposure Limit  PEL Permissible Exposure Limit (OSHA)  RCRA Resource Conservation and Recovery Act	NDSL	Non-Domestic Substances List	
NPDES National Pollutant Discharge Elimination System  NOS Not Otherwise Specified  NTP National Toxicology Program  OSHA Occupational Safety and Health Administration  OEL Occupational Exposure Limit  PEL Permissible Exposure Limit (OSHA)  RCRA Resource Conservation and Recovery Act	NFPA	National Fire Protection Association	
NPDES National Pollutant Discharge Elimination System  NOS Not Otherwise Specified  NTP National Toxicology Program  OSHA Occupational Safety and Health Administration  OEL Occupational Exposure Limit  PEL Permissible Exposure Limit (OSHA)  RCRA Resource Conservation and Recovery Act	NIOSH	National Institute for Occupational Safety and Health	
NTP National Toxicology Program  OSHA Occupational Safety and Health Administration  OEL Occupational Exposure Limit  PEL Permissible Exposure Limit (OSHA)  RCRA Resource Conservation and Recovery Act	NPDES		
OSHA Occupational Safety and Health Administration OEL Occupational Exposure Limit PEL Permissible Exposure Limit (OSHA) RCRA Resource Conservation and Recovery Act	NOS	Not Otherwise Specified	
OSHA Occupational Safety and Health Administration OEL Occupational Exposure Limit PEL Permissible Exposure Limit (OSHA) RCRA Resource Conservation and Recovery Act	NTP	•	
OEL Occupational Exposure Limit  PEL Permissible Exposure Limit (OSHA)  RCRA Resource Conservation and Recovery Act	OSHA	Occupational Safety and Health Administration	
PEL Permissible Exposure Limit (OSHA)  RCRA Resource Conservation and Recovery Act	OEL		
RCRA Resource Conservation and Recovery Act			
		Reportable Quantity	

Previous Document No	Confidential - For Use Only By Affiliates	Page
SDS077	of Sagent Pharmaceuticals, Inc.	Page 8 of 9



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