



# Material Safety Data Sheet

Material Name: Ascorbic Acid Injection USP 500mg/mL

## \*\*\* Section 1 - Chemical Product and Company Identification \*\*\*

### Manufacturer Information

Bioniche Pharma  
272 E Deerpath Road  
Suite 304  
Lake Forest, IL 60045

Phone: 888-258-4199

Emergency # 888-875-1671

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

### Emergency Overview

May cause eye, skin, gastrointestinal, and/or respiratory tract irritation.

### Potential Health Effects: Eyes

May cause irritation.

### Potential Health Effects: Skin

May cause irritation.

### Potential Health Effects: Ingestion

Not considered a likely route of exposure under normal product use. May cause gastrointestinal irritation if swallowed.

### Potential Health Effects: Inhalation

Not considered a likely route of exposure under normal product use. May cause respiratory tract irritation.

### HMIS Ratings: Health: 1 Fire: 0 HMIS Reactivity 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

## \*\*\* Section 3 - Composition / Information on Ingredients \*\*\*

CAS #	Component
50-81-7	L-Ascorbic acid
1310-73-2	Sodium hydroxide
7732-18-5	Water
144-55-8	Sodium bicarbonate
6381-92-6	Ethylenediaminetetraacetic acid, disodium, dihydrate

## \*\*\* Section 4 - First Aid Measures \*\*\*

### First Aid: Eyes

Flush immediately with water for at least 15 minutes. Do not rub eyes.

### First Aid: Skin

For skin contact, flush with large amounts of water. If irritation persists, get medical attention.

### First Aid: Ingestion

If ingestion of a large amount does occur, seek medical attention.

### First Aid: Inhalation

Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration.

## \*\*\* Section 5 - Fire Fighting Measures \*\*\*

### General Fire Hazards

See Section 9 for Flammability Properties.

None

### Hazardous Combustion Products

Not determined

# Material Safety Data Sheet

Material Name: Ascorbic Acid Injection USP 500mg/mL

## Extinguishing Media

Use extinguishing media appropriate for surrounding fire.

## Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear.

**NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0**

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

## \*\*\* Section 6 - Accidental Release Measures \*\*\*

### Containment Procedures

Contain the discharged material.

### Clean-Up Procedures

Wear appropriate protective equipment and clothing during clean-up. Use sand or perlite or vermiculite as an absorbent for large spills of this material.

### Evacuation Procedures

Isolate area. Keep unnecessary personnel away.

### Special Procedures

Avoid contact with skin and eyes.

## \*\*\* Section 7 - Handling and Storage \*\*\*

### Handling Procedures

Wash hands after handling and before eating.

### Storage Procedures

Keep this material in a cool, well-ventilated place.

## \*\*\* Section 8 - Exposure Controls / Personal Protection \*\*\*

### A: Component Exposure Limits

#### Sodium hydroxide (1310-73-2)

ACGIH: 2 mg/m3 Ceiling

OSHA: 2 mg/m3 Ceiling

NIOSH: 2 mg/m3 Ceiling

### Engineering Controls

Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.

### PERSONAL PROTECTIVE EQUIPMENT

#### Personal Protective Equipment: Eyes/Face

Wear safety glasses; chemical goggles (if splashing is possible).

#### Personal Protective Equipment: Skin

Use impervious gloves.

#### Personal Protective Equipment: Respiratory

Not normally needed.

#### Personal Protective Equipment: General

Eye wash fountain is recommended.

## \*\*\* Section 9 - Physical & Chemical Properties \*\*\*

# Material Safety Data Sheet

Material Name: Ascorbic Acid Injection USP 500mg/mL

<b>Appearance:</b>	Clear, colorless to pale-yellow	<b>Odor:</b>	None
<b>Physical State:</b>	Liquid	<b>pH:</b>	5.5-7.0
<b>Vapor Pressure:</b>	ND	<b>Vapor Density:</b>	ND
<b>Boiling Point:</b>	ND	<b>Melting Point:</b>	ND
<b>Solubility (H2O):</b>	Slight	<b>Specific Gravity:</b>	ND
<b>Evaporation Rate:</b>	ND	<b>VOC:</b>	ND
<b>Octanol/H2O Coeff.:</b>	ND	<b>Flash Point:</b>	ND
<b>Flash Point Method:</b>	ND	<b>Upper Flammability Limit (UFL):</b>	ND
<b>Lower Flammability Limit (LFL):</b>	ND	<b>Burning Rate:</b>	ND
<b>Auto Ignition:</b>	ND		

## \*\*\* Section 10 - Chemical Stability & Reactivity Information \*\*\*

### Chemical Stability

This is a stable material.

### Chemical Stability: Conditions to Avoid

None

### Incompatibility

Not Determined

### Hazardous Decomposition

Not Determined

### Possibility of Hazardous Reactions

Will not occur.

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

### Acute Dose Effects

#### A: General Product Information

No information available for the product.

#### B: Component Analysis - LD50/LC50

##### L-Ascorbic acid (50-81-7)

Oral LD50 Rat: 11900 mg/kg

##### Sodium hydroxide (1310-73-2)

Dermal LD50 Rabbit: 1350 mg/kg

##### Water (7732-18-5)

Oral LD50 Rat: >90 mL/kg

##### Sodium bicarbonate (144-55-8)

Oral LD50 Rat: 4220 mg/kg

### Carcinogenicity

#### A: General Product Information

No information available for the product.

#### B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

## \*\*\* Section 12 - Ecological Information \*\*\*

### Ecotoxicity

#### A: General Product Information

No information available for the product.

#### B: Component Analysis - Ecotoxicity - Aquatic Toxicity

##### Sodium hydroxide (1310-73-2)

###### Test & Species

96 Hr LC50 Oncorhynchus mykiss

###### Conditions

45.4 mg/L [static]

# Material Safety Data Sheet

Material Name: Ascorbic Acid Injection USP 500mg/mL

## Sodium bicarbonate (144-55-8)

### Test & Species

96 Hr LC50 Lepomis macrochirus	8250-9000 mg/L [static]	<b>Conditions</b>
120 Hr EC50 Nitzschia linearis	650 mg/L	
48 Hr EC50 Daphnia magna	2350 mg/L	

## \*\*\* Section 13 - Disposal Considerations \*\*\*

### US EPA Waste Number & Descriptions

### Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

### Disposal Instructions

All wastes must be handled in accordance with local, state and federal regulations.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

## \*\*\* Section 14 - Transportation Information \*\*\*

### US DOT Information

Shipping Name: Not Regulated

## \*\*\* Section 15 - Regulatory Information \*\*\*

### US Federal Regulations

### Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

#### Sodium hydroxide (1310-73-2)

CERCLA: 1000 lb final RQ; 454 kg final RQ

### State Regulations

### Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Sodium hydroxide	1310-73-2	Yes	Yes	Yes	Yes	Yes	Yes

### Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Sodium hydroxide	1310-73-2	1 %

### Additional Regulatory Information

# Material Safety Data Sheet

Material Name: Ascorbic Acid Injection USP 500mg/mL

## Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
L-Ascorbic acid	50-81-7	Yes	DSL	EINECS
Sodium hydroxide	1310-73-2	Yes	DSL	EINECS
Water	7732-18-5	Yes	DSL	EINECS
Sodium bicarbonate	144-55-8	Yes	DSL	EINECS
Ethylenediaminetetraacetic acid, disodium, dihydrate	6381-92-6	No	DSL	No

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

### Other Information

The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

### Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.