



## Lactated Ringer's Injection

### SECTION 1: IDENTIFICATION OF THE PRODUCT AND THE COMPANY

<b>Product Name</b>	Lactated Ringer's Injection
<b>Product Code</b>	A524SPH, A525SPH, A526SPH, A527SPH, A528SPH
<b>NDC Number</b>	46066-510-04, 46066-510-05, 46066-510-06, 46066-510-08, 46066-510-09
<b>Product Indication</b>	As a source of water and electrolytes in all species or as an alkalinizing agent.
<b>Distributor's Name</b>	Aspen Veterinary Resources® Ltd. Liberty, MO 64068, USA
<b>Phone</b>	970-584-5302
<b>Fax</b>	970-584-5802
<b>Customer Service Email</b>	info@aspenveterinaryresources.com
<b>Manufacturer's Name</b>	Sypharma Pty Ltd. 27 Healey Road, Dandenong Victoria 3175 Australia

### SECTION 2: HAZARDS IDENTIFICATION

<b>Potential Exposure Routes</b>	Ingestion, inhalation, dermal, or eye contact.
<b>Eyes</b>	May cause eye irritation.
<b>Dermal</b>	May cause skin irritation.
<b>Inhalation</b>	Not known.
<b>Ingestion</b>	May cause vomiting, headache, and medical problems.
<b>Potential Environmental Effects</b>	Ecological injuries are not known or expected under normal use.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<b>Each 100mL contains</b>	
Sodium Chloride	600mg
Potassium Chloride	30mg
Calcium Chloride Dihydrate	20mg
Sodium Lactate	310mg
Water for Injection	q.s.

### SECTION 4: FIRST AID MEASURES

<b>Eye Contact</b>	Remove from source of exposure, immediately flush eyes with water for at least 15 minutes. If irritation/acute toxicity persists, seek medical attention.
<b>Skin Contact</b>	Remove from source of exposure, immediately flush affected area with water for at least 15 minutes. If irritation/acute toxicity persists, seek medical attention.
<b>Inhalation</b>	If inhaled, do not induce vomiting, remove from source of exposure. Seek medical attention if signs of irritation/acute toxicity appear.
<b>Ingestion</b>	If ingested, do not induce vomiting, remove from source of exposure. Seek medical attention if signs of irritation/acute toxicity appear.

### SECTION 5: FIRE FIGHTING MEASURES

<b>Flammable Properties</b>	This product is not flammable. No unusual fire or explosion hazards noted.
<b>Extinguishing Media</b>	As appropriate for primary cause of fire.
<b>Specific Hazards Arising from the Chemical</b>	Not applicable
<b>Protective Equipment and Precautions for Firefighters</b>	Not applicable
<b>Specific Methods</b>	Not applicable



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## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Environmental Precautions** Avoid discharge into drains, water courses, or on the ground.  
**Methods for Cleaning** For small spillage: Absorb with liquid binding material (e.g. sand, sawdust, or diatomaceous earth) and place in labeled containers for later disposal. Large spillage: Dam and absorb spillage with liquid binding material. Following product recovery and placement in labeled disposal containers, flush area with water and clean thoroughly.

## SECTION 7: HANDLING AND STORAGE

**Handling** Avoid contact with eyes, skin and clothing. Handle in accordance with good industrial hygiene and safety practice.  
**Storage** Store below 86°F/30°C (room temperature). Protect from freezing. Containers should always be kept closed in storage and properly labelled.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls** Provide adequate ventilation.  
**Eye / Face Protection** Not required for normal use of this product. Wear safety glasses if eye contact is possible.  
**Skin Protection** Not required for normal use of this product. Wear suitable protective clothing and/or gloves if skin contact is possible.  
**Respiratory Protection** Not required for normal use of this product.  
**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** Clear Aqueous Solution  
**Physical State** Liquid  
**Odor** None  
**Boiling Point** 100°C - 110°C  
**Flash Point** No Data Available  
**Flammability** Non-flammable  
**Vapor Pressure** Not Applicable  
**Density** No Data Available  
**Solubility in Water** Miscible  
**Viscosity** No Data Available  
**Vapor Density** Not Applicable  
**Evaporation Rate** No Data Available  
**Melting Point** Not Applicable  
**Freezing Point** No Data Available  
**Burning Index** No Data Available

## SECTION 10: CHEMICAL STABILITY AND REACTIVITY INFORMATION

**Chemical Stability** Material is stable under normal conditions.  
**Shelf Life** 2 years  
**Hazardous Decomposition Products** None expected under normal conditions.  
**Possibility of Hazardous Reactions** Not expected to occur.



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## SECTION 11: TOXICOLOGICAL INFORMATION

Sensitization	No Data Available
Chronic Effects	No Data Available
Carcinogenicity	No Data Available
Skin Corrosion / Irritation	No Data Available
Epidemiology	No Data Available
Mutagenicity	No Data Available
Neurological Effects	No Data Available
Reproductive Effects	No Data Available
Teratogenicity	No Data Available
Further Information	No Data Available

## SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	No Data Available
Environmental Effects	No Data Available
Persistence and Degradability	No Data Available

## SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Instructions	According to Federal Regulations (40 CFR 261.4(b) (4)), it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Disposal should be in accordance with all applicable regulations.
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## SECTION 14: TRANSPORT INFORMATION

Department of Transportation (DOT)	Not regulated as dangerous goods. Not restricted for transport.
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## SECTION 15: REGULATORY INFORMATION

US Federal Regulations	This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the US EPA TSCA Inventory List.
CERCLA/SARA Hazardous Substances	Not Applicable
CERCLA (Superfund) Reportable Quantity	None
Superfund Amendments and Reauthorization Act of 1986 (SARA)	
Hazard Categories	No
Immediate Hazard	
Delayed Hazard	No
Fire Hazard	No
Pressure Hazard	No
Reactivity Hazard	No
Section 302 Extremely Hazardous Substance	No
Section 311 Hazardous Chemical	No



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### SECTION 16: OTHER INFORMATION

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**Disclaimer: This SDS has been prepared from current technical data to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal, and release. It is not to be considered as a warranty or quality specification. The information relates only to the specific product and may not be valid for such product used in combination with any other material or in any process, unless specified in the text.**

**END OF SAFETY DATA SHEET**