

Lactated Ringer's Injection, USP

1. PRODUCT AND COMPANY INFORMATION

Product Name:	Lactated Ringer's Injection, USP
Manufactured By	Infomed Fluids SRL 50 Theodor Pallady Blvd., 3 rd District, 032266 Bucharest, Romania
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Distributed By	Aspen Veterinary Resources®, Ltd, Liberty, MO 64068, USA
Phone:	970 584 5302
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Product Indication	As a source of water for hydration, electrolytes or as an alkalinizing agent

2. HAZARDS IDENTIFICATION

Routes of Exposure	Ingestion, inhalation, dermal or eye contact
Eyes	May cause eye irritation
Skin	May cause skin irritation
Ingestion	Ingestion may cause medical problems, vomiting and headache
Inhalation	Not know
Potential environmental effects	Ecological injuries are not known or expected under normal use

3. COMPOSITION / INFORMATION ON INGREDIENTS

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

4. FIRST AID MEASURES

Eye exposure	Remove from source of exposure, immediately flush eyes with water for 15 minutes. Provide symptomatic/supportive care as necessary.
Skin exposure	Remove from source of exposure, immediately flush skin with water for 15 minutes. Provide symptomatic/supportive care as necessary.
Ingestion	Do not induce vomiting. Remove from source of exposure. Do not give anything by mouth, if victim is unconscious. Provide symptomatic/supportive care as necessary.
Inhalation	Do not induce vomiting. Remove from source of exposure and move to area with fresh air. Provide symptomatic/supportive care as necessary.

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5. FIRE FIGHTING MEASURES

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

6. ACCIDENTAL RELEASE MEASURE

Personnel Precautions	Keep unnecessary personnel away.
Environmental Precautions	Prevent further leakage or spillage and avoid discharge into drains, water courses, or on the ground.
Methods for containment	If safe to do so, stop source of leak.
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.

7. HANDLING AND STORAGE

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls	Provide adequate ventilation
Personal Protective Equipment	
Eye 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	Handle in accordance with good industrial hygiene and safety practice
Considerations	

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Physical State	Liquid
Form	Aqueous Solution
Color Light	Colorless
Odor	None
Boiling Point	100°C-110°C
Flash Point	No Data Available
Flammability	Non-flammable
Vapor Pressure	N/A
Density	No Data Available
Solubility in Water	Miscible
Viscosity	No Data Available
Vapor Density	N/A
Evaporation Rate	No Data Available
Melting Point	N/A
Freezing Point	No Data Available
Burning Index	No Data Available

10. STABILITY AND REACTIVITY

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

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

12. ECOLOGICAL INFORMATION

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



Safety Data Sheet

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13. DISPOSAL CONSIDERATIONS

Disposal Considerations

Disposal Instructions: According to Federal regulations (40CFR 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.

14. TRANSPORT INFORMATION

Department of Transportation (DOT)

Not regulated as dangerous goods.
Not restricted for transport.

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

N/A

CERCLA (Superfund) Superfund Amendments and Reauthorization Act of 1986 (SARA)

None

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

16. OTHER INFORMATION

Other Information

Prepared By: Infomed Fluids SRL

Disclaimer: The information Safety Data Sheet 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