

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**


078949516

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

078949517

## Lactated Ringers Injection

NTI #: 18-803  
Rev. Date: 26SEP18

|   |  |
|---|--|
| 1. <b>Product and Company Identification:</b>   | <p><b>Product:</b> Lactated Ringers Injection</p> <p><b>Company:</b> Nova-Tech, Inc.</p> <p><b>Address:</b> 4705 Gold Core Road, Grand Island, NE 68801</p> <p><b>Telephone:</b> 308-381-8841</p> <p><b>Fax:</b> 308-381-6038</p> <p><b>Recommended Use:</b> For the correction of electrolyte depletion, metabolic acidosis, and dehydration of cattle, calves, horses, sheep, and swine.</p> <p><b>Restrictions on Use:</b> Solution should be warmed to body temperature prior to administration and administered at a slow rate. This is a single dose unit. It contains no preservatives. If entire contents are not used, discard unused portion.</p>  |
| <p>2. <b>Hazards Identification:</b></p> <p><b>Hazard Pictogram:</b></p>  <p><b>Signal Word:</b> Warning</p> | <p><b>Emergency Overview:</b> Health injuries are not known or expected under normal use.</p> <p><b>Hazard Statements:</b> H303; H315; H320</p> <p><b>Potential Health Effects</b></p> <p><b>Routes of Exposure:</b> Ingestion, inhalation, skin contact, or eye contact.</p> <p><b>Eyes:</b> May cause eye irritation.</p> <p><b>Skin:</b> May cause skin irritation.</p> <p><b>Inhalation:</b> Not known.</p> <p><b>Ingestion:</b> Ingestion may cause vomiting, headache, and medical problems</p> <p><b>Potential environmental effects:</b> Ecological injuries are not known or expected under normal use.</p>   |
| 3. <b>Composition / Information on Ingredients:</b>   | <p>Sodium Chloride</p> <p>Potassium Chloride</p> <p>Calcium Chloride Dihydrate</p> <p>Sodium Lactate 60% (liquid)</p> <p>Water for Injection</p>   |
| 4. <b>First Aid Measures:</b>   | <p><b>First Aid Procedures</b></p> <p><b>Eye Contact:</b> Immediately flush with water for 15 minutes. If symptoms persist, call physician</p> <p><b>Skin Contact:</b> Wash thoroughly with soap and water. If irritation develops, call physician.</p> <p><b>Inhalation:</b> If not breathing, provide CPR. Otherwise move to area with fresh air. If symptoms persist, call physician.</p> <p><b>Ingestion:</b> Do not induce vomiting. Rinse mouth with water and drink one glass of water. If victim is unconscious, losing consciousness, or convulsing, do not give anything by mouth. If adverse reactions occur, seek medical attention.</p> <p><b>General Advice:</b> If you feel unwell, seek medical advice (show label when possible).</p> |
| 5. <b>Fire Fighting Measures:</b>   | <p><b>Flammable Properties:</b> This product is not flammable. No unusual fire or explosion hazards noted.</p> <p><b>Extinguishing Media:</b> N/A</p> <p><b>Protection of Firefighters</b></p> <p><b>Specific Hazards Arising from the Chemical:</b> N/A</p> <p><b>Protective Equipment and Precautions for Firefighters:</b> N/A</p> <p><b>Specific Methods:</b> N/A</p>  |

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| 6. Accidental Release Measures:                    | <b>Personnel Precautions:</b> Keep unnecessary personnel away.<br><b>Environmental Precautions:</b> If safe to do so, prevent further leakage or spillage. Avoid discharge into drains, water courses, or on the ground.<br><b>Methods for containment:</b> If safe to do so, stop source of leak.<br><b>Methods for Cleaning Up:</b> For small spillage: Absorb with sand or other non-combustible absorbent material and place in labeled containers for later disposal. Large spillage: Dam and absorb spillage with sand, sawdust, or other absorbent material. Following product recovery and placement in labeled disposal containers, flush area with water and clean thoroughly. |   |
| 7. Handling and Storage:                           | <b>Handling:</b> Avoid contact with eyes, skin, and clothing. Handle in accordance with good industrial hygiene and safety practice.<br><b>Storage:</b> Use care in handling/storage. Store in tightly closed containers in a dry cool place per label directions.   |   |
| 8. Exposure Controls / Personal Protection:        | <b>Engineering Controls:</b> Provide adequate ventilation<br><b>Personal Protective Equipment</b><br><b>Eye / Face Protection:</b> Safety glasses if eye contact is possible<br><b>Skin Protection:</b> Not required for normal use of this material<br><b>Respiratory Protection:</b> Not required for normal use of this material.<br><b>General Hygiene Considerations:</b> Handle in accordance with good industrial hygiene and safety practice.  |   |
| 9. Physical and Chemical Properties:               | <b>Appearance:</b><br><b>Physical State:</b><br><b>Form:</b><br><b>Color Light:</b><br><b>Odor:</b><br><b>Boiling Point:</b><br><b>Flash Point:</b><br><b>Flammability:</b><br><b>Vapor Pressure:</b><br><b>Density:</b><br><b>Solubility (Water):</b><br><b>Viscosity:</b><br><b>Vapor Density:</b><br><b>Evaporation Rate:</b><br><b>Melting Point:</b><br><b>Freezing Point:</b><br><b>Burning Index:</b>   | Liquid<br>Liquid<br>Aqueous Solution<br>Clear, Colorless<br>None<br>100° - 110°C<br>No Data Available<br>Non-flammable<br>N/A<br>No Data Ava<br>Miscible<br>No Data Available<br>N/A<br>No Data Available<br>Not Applicable<br>No Data Available<br>No Data Available |
| 10. Chemical Stability and Reactivity Information: | <b>Chemical Stability:</b> Material is stable under normal conditions.<br><b>Hazardous Decomposition Products:</b> None expected under normal conditions.<br><b>Possibility of hazardous reactions:</b> Not expected to occur.   |   |
| 11. Toxicological Information:                     | <b>Toxicological Data</b><br><b>Product:</b><br><b>Sensitization:</b><br><b>Chronic Effects:</b><br><b>Carcinogenicity:</b>  | Lactated Ringers Injection<br>No Data Available<br>No Data Available<br>No Data Available   |

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| <b>Skin Corrosion / Irritation:</b> | No Data Available |
| <b>Epidemiology:</b>                | No Data Available |
| <b>Mutagenicity:</b>                | No Data Available |
| <b>Neurological Effects:</b>        | No Data Available |
| <b>Reproductive Effects:</b>        | No Data Available |
| <b>Teratogenicity:</b>              | No Data Available |
| <b>Further Information:</b>         | No Data Available |

**12. Ecological Information:** **Ecotoxicological Data**  
**Components:** No Data Available  
**Test Results:** No Data Available  
**Ecotoxicity:** No Data Available  
**Environmental Effects:** No Data Available  
**Persistence and Degradability:** No Data Available

**13. 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:** **DOT:** Not regulated as dangerous goods.

**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 Immediate Hazard – No  
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:**  
**Prepared By:** Nova-Tech, Inc. – Tel: 308-381-8841  
**Date:** 26SEP18  
**Disclaimer:**  
The information provided on this Safety Data Sheet is correct 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 material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.  
**End of SDS**