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SAFETY DATA SHEET - 29 CFR 1910.1200

Section 1: Company and Product Identification

Product Name: Lactated Ringers Solution

Product Code: S2000™

Company: Biologos, LLC
 2235 Cornell Ave
 Montgomery, IL 60538
 PH: 800-246-4088

**Emergency INFOTRAC
 Response:** (800) 535-5053

Section 2: Hazards Identification

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Hazard Pictograms:

Signal Word: Warning

Hazard Category: Not-classified

Hazard Statements: Not classified

**Precautionary
 Statements:** Not Applicable

**Hazards not
 otherwise classified:** Occupational Exposure Values have been established for one or more of the ingredients (see Section 8)

Section 3: Composition / Information on Ingredients

| Hazardous substance (name) | Hazard Category | CAS# | Weight % |
|----------------------------|-----------------------|------------|----------|
| Water | Not classified | 7732-18-5 | qs |
| Calcium Chloride | Eye Irritant 2 (H319) | 10035-04-8 | <1 |
| Potassium Chloride | Not classified | 7447-90-7 | <1 |
| Sodium Lactate | Not classified | 72-17-3 | <1 |
| Sodium Chloride | Irritant | 7647-14-5 | <1 |

Section 4: First Aid Measures

Notable Exposure symptoms: Irritation of eye tissue.

If ingested: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Obtain medical attention.

If inhaled: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

Eye contact: Rinse immediately with plenty of water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

Skin contact: Rinse with water. Soap may be used. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists.

Additional Info: None

Section 5: Fire Fighting Measures

General Info: Do not enter fire area without proper protection.

Extinguishing Method / Equipment: Foam. Dry powder. Carbon dioxide. Water.

Hazardous Decomposition Info: Not applicable.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and procedures: Safety glasses. Evacuate unnecessary personnel.

Containment Equipment and Procedures: Prevent further leakage or spillage if safe to do so. Stop spill from entering drains, sewers, streams, or waterways.

Cleanup Procedures: Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

Section 7: Handling and Storage

Safe Handling Precautions: Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Avoid contact with eyes.

Recommendations for Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from strong acids. Keep in properly labeled containers.

Incompatibilities: Strong oxidizing agents.

Section 8: Exposure Control / Personal Protection

General / Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Controls:

Work Clothing: Standard work clothes.

Eye/face protection: Safety glasses.

Skin Protection: Wear protective gloves.

Respiratory Protection: No protective equipment is needed under normal use conditions.

Additional Information:

Additional Information: None

| Substances with Exposure Limits | CAS# | ACGIH-TLV | OSHA-PEL | NIOSH |
|---------------------------------|------------|-----------|----------|-------|
| Calcium Chloride | 10035-04-8 | 5 mg/m3 | 5 mg/m3 | |
| Potassium Chloride | 7447-90-7 | 5 mg/m3 | 5 mg/m3 | |
| Sodium Chloride, | 7647-14-5 | 5 mg/m3 | 5 mg/m3 | |

Section 9: Physical and Chemical Properties

| | | | |
|-------------------------------------|---------------------------------------|---|----------------------------|
| State: Liquid | Melting Point: Not avail | Freezing Point: Not avail | Odor Threshold: N/A |
| Color: Not avail | Boiling Point/Range: Not avail | pH: Not avail | |
| Sp Grav: Not avail | Odor: None | Water Solubility: Not avail | |
| Evaporation rate: Not avail | Flash Point: Not avail | Part. Coeff (n-octanol/water): Not avail | |
| Upper Flam Limits: Not avail | Lower Flam Limits: Not avail | Vapor Pressure: Not avail | |
| VOC Content (lbs/gal): 0% | Viscosity: Not avail | Autoignition Temp: Not avail | |

Section 10: Stability and Reactivity

General: Stable under normal conditions.

Incompatible materials: Strong oxidizers

Decomposition products: Not available.

Section 11: Toxicological Information

General Information: There is no data for this product. The information included in this section describes the potential hazards of the individual ingredients.

Toxicological Information (product): May cause eye irritation.

Likely Routes of Exposure: Skin and eye contact.

Toxicological Information (contained substances)

| Hazardous substance (name) | LD50 Oral (Rat) | LD50 (Mouse) | LD50 Dermal | Irritancy (Rabbit): |
|----------------------------|-----------------|----------------|----------------|---------------------|
| Sodium Lactate | >90 mg/kg | Not classified | Not classified | Mild |
| Potassium Chloride | 2600 mg/kg | Not classified | Not classified | Mild |
| Calcium Chloride | 1000 mg/kg | 1940 mg/kg | Not classified | Moderate |
| Sodium Chloride | 3000 mg/kg | 4000 mg/kg | Not classified | Mild |

Carcinogenicity: Not Classified

Mutagenicity: Not Classified

Sensitization: Not Classified

Reproductive or Developmental Effects: Not Classified

Section 12: Ecological Information

General information: Classification concerning the environment: not applicable.

Aquatic Toxicity: Not Available

Degradation / Mobility info: Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. No test data on mobility of the substance available.

Bioaccumulative potential: Not established.

Section 13: Disposal Information

Product disposal: Dispose of product in accordance with local, regional, and national regulations. Consult with waste contractor.

Container disposal: Consult waste contractor.

Other considerations: None

Section 14: Transport Information

DOT: Not regulated for transport

IMO/IMDG: Not regulated for transport

IATA: Not regulated for transport

OTHER: Inquire for further transport information.

Section 15: Regulatory Information

TSCA: Not listed.

CERCLA RQ: Not Regulated by CERCLA

SARA 311/312: Not listed.

SARA 313 Not listed.

California Prop 65 No California Prop. 65 substances.

Substances:

USDOT RQ - No. DOT Marine Pollutant - No.

Clean Water Act Not listed.

Section 16: Other Information

SDS Author: Biologos, LLC

Version Date: 5/1/2018

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