

## **SAFETY DATA SHEETS**

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

078009333

**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

078009325

MATERIAL SAFETY DATA SHEET

American Veterinary Products

LACTATED RINGERS

MANUFACTURER: AMERICAN VETERINARY PRODUCTS
749 S. LEMAY, SUITE A 3-231
FORT COLLINS, COLORADO 80524
DATE: 07-07-92
NO.: 159-00
REVIEWED BY: 7/7/92
\* Not Est. = Not Established

SECTION IX. SPECIAL PRECAUTIONS AND COMMENTS

STORAGE & HANDLING INFORMATION: READ AND FOLLOW ALL LABEL DIRECTIONS
For Veterinary Use ONLY. Not For Human Consumption. Avoid unnecessary exposure. Wash thoroughly after handling.
DOT CLASS: Not classified.

SECTION I. MATERIAL IDENTIFICATION

MATERIAL NAME: Lactated Ringers
OTHER DESIGNATIONS: Sodium, Potassium, Calcium and Lactate in aqueous solution
CHEMICAL FAMILY: Nutritional Supplement
TRADE NAME: Lactated Ringers

APPROVALS

Arun Kumar, Director-Q.A.
DATE: 7/16/92
Gene Komer, Director-R & D
DATE: 7/16/92

SECTION II. INGREDIENTS AND HAZARDS

Table with 3 columns: INGREDIENTS AND HAZARDS, %, OSHA PEL. Rows include Sodium Chloride, Sodium Lactate, Potassium Chloride, and Calcium Chloride with their respective hazard data.

Judgements as to the suitability of information herein for purchaser's purposes are necessarily purchaser's responsibility. Therefore, although reasonable care has been taken in the preparation of such information, American Veterinary Products, Inc. extends no warranties...

SECTION III. PHYSICAL DATA

BOILING POINT AT 1 ATM, DEG. C: N/A
VAPOR PRESSURE AT 15 DEG. C mm Hg: N/A
VAPOR DENSITY (Air = 1): N/A
WATER SOLUBILITY AT 20 DEG. C: Complete
SPECIFIC GRAVITY 20/4 C: 1.009
EVAP. RATE (BuAc = 1): N/A
VOLATILES, X: N/A
MOLECULAR WEIGHT: N/A
APPEARANCE AND ODOR: Clear, colorless liquid with little or no odor.

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES: Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representation as to the accuracy or completeness of the information contained therein...

COMPAS Code: 11320070 NAC Approved Date: / /

SECTION IV. FIRE AND EXPLOSION DATA

FLASH POINT AND METHOD: No data available.
AUTO-IGNITION TEMPERATURE: No data available.
FLAMMABILITY LIMITS IN AIR: Not considered a fire hazard.

LOWER:  
UPPER:  
EXTINGUISHING MEDIA: Use any means available to extinguish the surrounding fire.  
SPECIAL FIRE FIGHTING PROCEDURES: Wear full protective clothing and MIOSH-approved self-contained breathing apparatus operated in positive pressure/demand mode.

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SECTION V. REACTIVITY DATA  
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STABILITY: Stable.  
CONDITIONS TO AVOID: None known.  
INCOMPATIBLE WITH: No incompatibilities known.  
HAZARDOUS DECOMPOSITION PRODUCTS: May emit toxic fumes of carbon dioxide and carbon monoxide.  
HAZARDOUS POLYMERIZATION: Will Not Occur.  
CONDITIONS TO AVOID: None known.

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SECTION VI. HEALTH HAZARD INFORMATION  
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EFFECTS OF OVEREXPOSURE: Anaphylactic hypersensitivity. Possible allergic reaction. Irritation of eyes, skin, respiratory and/or digestive tract.  
TARGET ORGANS: No data available.  
PRIMARY ROUTE OF ENTRY: Eyes, skin, ingestion.  
FIRST AID: If irritation develops, get prompt medical attention.  
EYE CONTACT: Flush with copious amount of water, lifting upper and lower lids.  
SKIN CONTACT: Wash with copious amount of water.  
INHALATION: Remove to fresh air.  
INGESTION: Induce vomiting ONLY on advice of medical personnel.

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SECTION VII. SPILL, LEAK, AND DISPOSAL PROCEDURES  
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SPILLS, LEAKS: Sweep or mop up released material into suitable container for disposal.  
DISPOSAL: Ensure compliance with local, state, and federal regulations.

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SECTION VIII. SPECIAL PROTECTION INFORMATION  
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RESPIRATORY PROTECTION: None required if used in accordance with labeled directions.  
VENTILATION: General dilution or local exhaust.  
PROTECTIVE GLOVES: Neoprene or rubber may be used.  
EYE PROTECTION: Safety goggles or glasses may be used.  
OTHER PROTECTIVE EQUIPMENT: None required if used in accordance with label directions.

1/18/95  
The Butler Company

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DR. MICHAEL A. NEWTON, SLOPE

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