

SAFETY DATA SHEETS

This SDS packet was issued with item:

078009325

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).

078009333

#100603

----- 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 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

SECTION II. INGREDIENTS AND HAZARDS

INGREDIENTS AND HAZARDS	%	OSHA PEL
Sodium Chloride	0.60	Not est.
HAZARD DATA/TOXICITY: LD50 3.75 g/kg-rat-oral		
Sodium Lactate	0.31	Not est.
HAZARD DATA/TOXICITY: Aquatic toxicity rating: TLM 96: 1000 ppm		
Potassium Chloride	0.03	Not est.
HAZARD DATA/TOXICITY: LD50 2430 mg/kg-rat-oral		
Calcium Chloride	0.02	TLV-5 mg/ml
HAZARD DATA/TOXICITY: LD50 1000 mg/kg-rat-oral		

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, %: N/A
MOLECULAR WEIGHT: N/A
APPEARANCE AND ODOR: Clear, colorless liquid with little or
no odor.

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.

SECTION IX. SPECIAL PRECAUTIONS AND COMMENTS

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

APPROVALS

Arun Kumar, Director-Q.A.

DATE: 7/16/92

Gene Komer, Director-R & D

DATE: 7/16/92

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use. Each individual should make a determination as to the
suitability of the information for their particular
purpose(s). A request has been made to the manufacturer to
approve the contents of this material safety data sheet.
Upon receipt a new MSDS will be made available.

COMPAS Code: 11320070

NAC Approved Date: / /

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

SECTION V. REACTIVITY DATA

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.

SECTION VI. HEALTH HAZARD INFORMATION

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.

SECTION VII. SPILL, LEAK, AND DISPOSAL PROCEDURES

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

SECTION VIII. SPECIAL PROTECTION INFORMATION

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. NEW--M. SLOPE

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