COLORADO SERUM COMPANY Established 1923



SAFETY DATA SHEET

Creation Date: 11-APR-2018 Revision Date: 03-DEC-2018 Version: 003 Page 1 of 5

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND THE MANUFACTURER

Product Identifier TRUPERELLA PYOGENES-ESCHERICHIA COLI-MANNHEIMIA HAEMOLYTICA-

PASTEURELLA MULTOCIDA-SALMONELLA TYPHIMURIUM ANTIBODY

Trade Name BOVI-SERA

Recommended Use Veterinary Antiserum Product **Manufacturer** Colorado Serum Company

4950 York Street - P.O. Box 16428

Denver, CO 80216

Emergency Phone No. 303-295-7527

2. HAZARDS IDENTIFICATION

Hazard ClassificationNot ClassifiedHazard StatementsNot ClassifiedSignal WordNot Classified

Other Hazards May cause allergic reaction with skin exposure.

Unknown acute toxicity None known

Precautionary Statements This is a bovine (cattle) origin antiserum product containing no live organisms.

For veterinary use. Use only as recommended.

3. COMPOSITION / INFORMATION ON INGREDIENTS

CATEGORY	COMMON NAME	CAS NO.	%
CHEMICAL			
Sodium Chloride (NaCl)	Salt	7647-14-5	*
Dihydrogen Monoxide (H ₂ 0)	Water	7732-18-5	*
Glycerine (C ₃ H ₈ O ₃)	Same	56-81-5	*
Sodium Borate Decahydrate (Na ₂ B ₄ O ₇ ·10H ₂ O)	Sodium Borate 10-hydrate	1330-43-4	*
Ground Pea Bean Extract	Same	N/A	*
MIXTURE			
Bovine Bacterial Antibody (serum)	Bovi-Sera	N/A	*

^{*}The components are not hazardous or are below required disclosure limits. The percent of each ingredient is proprietary.

Product contains Thimerosal at ≥ 0.0001 g/ml and ≤ 0.0003 g/ml, and Phenol at $\geq 0.25\%$ and $\leq 0.55\%$ as preservatives. See Section 13 for disposal considerations.

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4. FIRST AID MEASURES

Necessary First-Aid Instructions: BOVI-SERA

This is a bovine (cattle) origin antiserum product containing no live organisms. For veterinary use only. Use only as recommended. Accidental human exposure may result in an allergic reaction.

Accidental injection: Contact a physician. Local reaction at injection site (swelling) may occur.

Infection at injection site may occur from contaminated equipment.

Eye Contact: Immediately flush eyes with water for at least 10 minutes.

Skin Contact: Wash skin with soap and water.

Ingestion: Contact a physician. Inhalation: Contact a physician.

Important Symptoms or Effects - Acute or Delayed: Exposure has potential for allergic reaction.

Recommendations for Immediate Care and Special Treatment: Contact a physician if ingested.

Treat symptomatically.

General Information: This is an animal product. NOT FOR HUMAN USE.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Equipment: Water, Carbon dioxide, Dry Chemical

Unsuitable Extinguishing Equipment: Not known

Specific Hazards Arising from Substance or Mixture: Avoid causing aerosol.

Fire Fighting: Special Protective Equipment: Firefighters: Wear appropriate personal protective equipment as conditions warrant which may include self-contained breathing apparatus. Avoid aerosols and environmental release.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: This is an antiserum product containing no live organisms. Use as directed.

It is an aqueous suspension not expected to support combustion.

Protective Equipment: Use protective gloves and eye/face shield as indicated.

Emergency Procedures: None

Containment Methods: Isolate a spill and clean up by absorption and flush area with water.

Product is not infective.

Clean Up Procedures: Utilize absorbent material to soak up spill. For disposal, see Section 13 of this SDS.

Avoid release to the environment.

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7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with skin, eyes and clothing. Use only with adequate ventilation. Wash hands thoroughly after handling. Avoid breathing mists or aerosols of this product. Use appropriate personal protective equipment and avoid accidental injection.

Storage Conditions: Store only in unopened containers. Store at 2 to 8° C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA Permissible Exposure Limits (PEL): Exposure limits for ingredient(s) are not noted.

American Conference of Governmental

Industrial Hygienists (ACGIH): Not known

Threshold Limit Values (TLV): Not known

Engineering Controls: Not known

Personal Protective Measures: Safety glasses with side shields, or face shield, rubber/latex/vinyl

gloves. Wash hands after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State: Light to dark tan color liquid in sealed container

Odor: No data available **Odor Threshold:** No data available Vapor Density: No data available No data available PH: **Melting/Freezing Points:** No data available No data available **Solubility: Initial Boiling Point & Range:** No data available Flash Point: No data available **Evaporation Rate:** No data available Flammability (solid, gas): No data available Flammability/Explosive limits: No data available Vapor Pressure/Vapor Density: No data available **Relative Density:** No data available **Solubility:** No data available Partition Coefficient: n-octanol/water No data available **Auto-ignition Temperature:** No data available **Decomposition Temperature:** No data available No data available **Viscosity:**

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10. STABILITY AND REACTIVITY

Reactivity: Product is stable and non-reactive when stored according to label instructions.

No other data is available.

Chemical Stability: Product is stable under normal conditions.

Oxidizing Properties: No data available

Conditions to Avoid: Store at 2 to 8° C. Prolonged exposure to higher temperatures may adversely affect

potency. Do not freeze.

Incompatible Materials: Do not combine with any other material. Use only as directed.

Hazardous Decomposition Products: None expected.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Accidental exposure is most likely to be topical needle stick.

Physical, Chemical and Toxicological Symptoms: No data available

Delayed and Immediate Effects of Exposure: No data available

Acute Toxicity Estimates: No data available

Carcinogenic Properties: No data available

12. ECOLOGICAL INFORMATION

Avoid product being introduced into the environment.

13. DISPOSAL CONSIDERATIONS

Return unused and/or outdated product to manufacturer for disposal.

14. TRANSPORT INFORMATION

Not required information

15. REGULATORY INFORMATION

Not required information

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16. OTHER INFORMATION

SDS Code: Not applicable

SDS Preparation Date: 11-APR-2018

Latest Revision Date: 03-DEC-2018

Reasons for Revision: Changes not relevant

Data Sources: Information included in this SDS may have been gathered from confidential internal

sources, raw material suppliers, or from published literature.

Prepared by: Colorado Serum Company Regulatory Department

Colorado Serum Company believes that the information contained in this Safety Data Sheet is accurate and provided in good faith. It is without warranty of any kind, expressed or implied. If data for a hazard is not included in this document, there is no known information at this time.

END OF SAFETY DATA SHEET