**COLORADO SERUM COMPANY**
**Established 1923**

# SAFETY DATA SHEET



## 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND THE MANUFACTURER

| | |
|---|---|
| **Product Identifier** | **ANTHRAX SPORE VACCINE, Nonencapsulated Live Culture** |
| **Trade Name** | None |
| **Recommended Use** | Veterinary Vaccine |
| **Manufacturer** | Colorado Serum Company<br>4950 York Street – P.O. Box 16428<br>Denver, CO 80216 |
| **Emergency Phone No.** | 303-295-7527 |

## 2. HAZARDS IDENTIFICATION

| | |
|---|---|
| **Hazard Classification** | Not classified |
| **Hazard Statements** | Not classified |
| **Signal Word** | Not classified |
| **Other Hazards** | May cause allergic reaction with skin exposure |
| **Unknown acute toxicity** | None known |
| **Precautionary Statements** | This is an animal vaccine for veterinary use. Use only as recommended. |

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

| CATEGORY | COMMON NAME | CAS NO. | % |
|---|---|---|---|
| **CHEMICAL NAME** | | | |
| Sodium Chloride (NaCl) | Salt | 7647-14-5 | * |
| Glycerine ($C_3H_8O_3$) | Glycerol, (CP) | 56-81-5 | * |
| Saponin ($C_{58}H_{94}O_{27}$) | N/A | 8047-15-2 | * |
| Dihydrogen Monoxide ($H_2O$) | Purified Water | 7789-20-0 | * |
| | | | |
| | | | |
| **MIXTURE** | | | |
| Anthrax Spore Vaccine, Nonencapsulated Live Culture | Anthrax spore Vaccine | N/A | * |

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

## 4. FIRST AID MEASURES

**Necessary First-Aid Instructions: Anthrax Spore Vaccine, Nonencapsulated Live Culture**

This strain of *Bacillus anthracis* (Sterne 34F2) is not known to be pathogenic for humans. However, it is advised that it be handled carefully to avoid human exposure.
In the event of human exposure, contact a physician for medical advice /attention regarding any exposure as indicated:

| | |
|---|---|
| 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 injected or ingested. Treat symptomatically.

**General Information:** This is an animal vaccine. 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**: Use as directed. Avoid contact with exposed skin and eyes and clothing. It is an aqueous suspension not expected to support combustion.

**Protective Equipment:** Use personal protective clothing, gloves and eye/face shield as indicated.

**Emergency Procedures:** None

**Containment Methods**: Isolate a spill and apply hypochlorite solution (10 % bleach) or equivalent disinfectant.

**Clean Up Procedures**: Utilize absorbent material to soak up spill. Precautionary recommendations: burn, incinerate, autoclave or boil materials which contacted the spill. For disposal, see Section 13 of this SDS. Avoid release to the environment.

## 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):** Please refer to other sections herein regarding Anthrax Spore vaccine, the active live component of this vaccine. Exposure limits for other component(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. Disinfect any equipment in contact with vaccine.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| **Appearance/Physical State:** | Colorless to light yellow or tan liquid in sealed container |
| **Odor:** | No data available |
| **Odor Threshold:** | No data available |
| **Vapor Density:** | No data available |
| **PH:** | No data available |
| **Melting/Freezing Points:** | No data available |
| **Solubility:** | No data available |
| **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 |
| **Viscosity:** | No data available |

## 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 or 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

Follow disposal instructions on the product label.

## 14. TRANSPORT INFORMATION

Not required information

## 15. REGULATORY INFORMATION

Not required information

## 16. OTHER INFORMATION

**SDS Code:** Not applicable

**SDS Preparation Date:** 17-APR-2018

**Latest Revision Date:** 03-DEC-18

**Reasons for Revision:** 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**