



SAFETY DATA SHEET

Creation Date: 25-JAN-2019

Revision Date: N/A

Version: 001

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1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND THE MANUFACTURER

Product Identifier FREUND'S COMPLETE ADJUVANT
Trade Name None
Recommended Use Veterinary Adjuvant for laboratory/experimental use
Manufacturer Colorado Serum Company - Reagent Division
4950 York Street – P.O. Box 16428
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 For veterinary/experimental use. Use only as recommended. Not for human use. Determination of the suitability of this product is the sole responsibility of the purchaser / user.

3. COMPOSITION / INFORMATION ON INGREDIENTS

CATEGORY	COMMON NAME	CAS NO.	%
CHEMICAL NAME			
Drakeol 6VR	Mineral Oil	8042-47-5	*
Mannide Monooleate (C ₂₄ H ₄₄ O ₆)	None	9049-98-3	*
<i>Mycobacterium butyricum</i>	None	N/A	*

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

See Section 13 for disposal considerations.

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4. FIRST AID MEASURES

Necessary First-Aid Instructions:

This product contains 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: 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. 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. See Section 13 for disposal.

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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 or as recommended in accompanying literature provided by the manufacturer.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA Permissible Exposure Limits (PEL): Exposure limits for ingredients 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:	Opaque off-white emulsification 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

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10. STABILITY AND REACTIVITY

Reactivity: Product is stable only when stored according to label or accompanying instructions provided by the manufacturer and for the recommended storage time. Thereafter, the product may not be of value for intended use.

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 suitability. Do not freeze unless specifically provided from the manufacturer.

Incompatible Materials: Use only as an adjuvant for veterinary applications.

Hazardous Decomposition Products: None expected.

11. TOXICOLOGICAL INFORMATION

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

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

Not available

13. DISPOSAL CONSIDERATIONS

Dispose of such that it will be taken to an approved landfill.

14. TRANSPORT INFORMATION

Not required information

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15. REGULATORY INFORMATION

Not required information

16. OTHER INFORMATION

SDS Code: Not applicable

SDS Preparation Date: 25-JAN-2019

Latest Revision Date: N/A

Reasons for Revision: N/A

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