Material Safety Data Sheet

Section 1 - Product and Company Information

Product Name: FREUND'S ADJUVANT COMPLETE
Product Number: FS881
Brand: Sigma Chemical
Company: Sigma-Aldrich
Street Address: 3550 Spruce Street
City, State, Zip, Country: SAIN LOUIS, MO 63103 US
Technical Phone: 314 721 5765
Fax: 800 325 9552

Section 2 - Composition/Information on Ingredient

Substance Name: FREUND'S ADJUVANT COMPLETE
CAS #: 90781-2
SARA 313: No

Section 3 - Hazards Identification

Emergency Overview: Caution: Avoid contact and inhalation.
For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

Oral Exposure: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure: If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Dermal Exposure: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

Eye Exposure: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5 - Fire Fighting Measures

Autoignition Temp: N/A

Extinguishing Media: Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s): Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

Methods for Cleaning Up: Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

Handling: Use appropriate handling techniques. Avoid inhalation. Do not get in eyes, on skin, or on clothing. Avoid prolonged or repeated exposure.

Storage: Suitable: Keep tightly closed. Store in a cool dry place.

Section 8 - Exposure Controls / PPE

Engineering Controls: Mechanical exhaust required.


General Hygiene Measures: Wash thoroughly after handling.

Section 5 - Physical/Chemical Properties

Appearance: Physical State: Liquid

Molecular Weight: N/A

pH: N/A

BP/VP Range: N/A

MF/MP Range: N/A

Freezing Point: N/A

Vapor Pressure: N/A

Vapor Density: N/A

Saturated Vapor Conc.: N/A
Section 10 - Stability and Reactivity

Stability: Stable.

Hazardous Decomposition Products: Nature of decomposition products not known.

Section 11 - Toxicological Information

Route of Exposure:
Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Multiple Routes: May be harmful by inhalation, ingestion, or skin absorption.

Signs and Symptoms of Exposure:
Potent inflammatory agent especially if introduced intradermally or into the eyes. Profound sloughing of skin or loss of sight may occur. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Freund's adjuvant complete is a formulation that is used to enhance and prolong immune responses as well as potentiate sensitization. Positive TB test leading to a chronic granulomatous reaction has been observed from accidental self-injection. Tubercle 58 (4), 1977, pages 221-224.

RTECS Number: LS665000

Chronic Exposure - Reproductive Hazard:
Species: Rat
Route of Application: Intratracheal Inhalation
Exposure Time: 10 Pre

Result: Maternal Effects: Menstrual cycle changes or disorders.

Section 12 - Ecological Information

No data available.