

MATERIAL SAFETY DATA SHEET - OIL Emulsions

Identity(s):
Autogenous Oil Emulsion

SECTION I

Manufacturer's Name	Emergency Telephone Number
Epitopix, LLC	(320) 222-9822
Address	Telephone Number for Information
1801 Biotech Ave NW PO Box 753	(320) 222-9822
Willmar, MN 56201	Date Prepared
	June 1 2010

SECTION II - Hazardous Ingredients / Identity Information

Hazardous Components	Percent
Formaldehyde	< 0.15%

General Description: Contains outer membrane protein purified from the cell wall of gram-negative bacteria, in mineral oil with surfactants.

The information in this material safety data sheet has been compiled from material believed to be accurate and from our own experience. While we believe that the data presented is factual, Epitopix makes no warranty or representation, nor assume any responsibility in conjunction with the use of this information.

SECTION III - Physical / Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H2O = 1)	N/A
Vapor Pressure (mm Hg)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water - Not soluble			
Appearance and Odor - White, creamy appearance			

SECTION IV - Fire and Explosion Hazard Data

Flash Point (Method Used) - N/A Flammable Limits - N/A
Extinguishing Media - Use extinguishing media appropriate to surrounding conditions
Special Fire Fighting Procedures - None

Unusual Fire and Explosion Hazards - None known

SECTION V - Reactivity Data

Stability: Unstable
 Stable X - Avoid direct sunlight and extreme temperatures
Incompatibility (Materials to Avoid) - N/A
Hazardous Decomposition or Byproducts - N/A
Hazardous Polymerization: May Occur
 Will Not Occur X

SECTION VI - Health Hazard Data

Route(s) of Entry: Inhalation? Skin? Ingestion?
Health Hazards (Acute and Chronic)
Accidental injection into human tissue may cause an allergic reaction or inflammatory response due to mineral oil. [CONSULT PHYSICIAN IMMEDIATELY]

Carcinogenicity: NTP? IARC Monographs? OSHA Regulated?
Formaldehyde is considered carcinogenic, however it is present at less than 0.15% by volume.
Signs and Symptoms of Exposure
Severe pain, redness and swelling within minutes, at site of accidental injection.
Medical Conditions Generally Aggravated by Exposure
Not Determined
Emergency and First Aid Procedures
For skin or eye contact, flush with water and consult with a physician if irritation persists.
If injected or accidentally injected, consult a physician immediately.

SECTION VII - Precautions for Safe Handling and Use

Steps to be taken in Case Material is Released or Spilled
If large, absorb on sand or vermiculite and place in a closed container for disposal. Take appropriate precaution to prevent contact with eyes, skin or respiratory tract. Clean the spill area with disinfectant solution.
Waste Disposal Method
Check federal, state and local regulations for quantities that cannot be exhausted by use.
Precautions to be Taken in Handling and Storing
Avoid extreme temperatures and direct sunlight - DO NOT FREEZE.
Store in the dark at 2-7 degrees C (35-45 degrees F)
Other Precautions
Read literature accompanying vaccinating equipment and vaccine carefully before use.

SECTION VIII - Control Measures

Respiratory Protection (Specify Type) - Not required for normal use
Ventilation: Local Exhaust - Preferable Special - N/A
 Mechanical (general) - Acceptable Other - N/A
Protective Gloves - Recommended Eye Protection - Recommended
Other Protective Clothing or Equipment -
Work / Hygienic Practices - Handle in a safe manner to avoid accidental injection.



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STATEMENT ON ACCIDENTAL SELF INJECTION WITH MINERAL OIL EMULSION VACCINES

All accidental injections should be considered a **SERIOUS MEDICAL EMERGENCY**, and the victim should be seen by qualified medical personnel as soon as possible.

Injection of a mineral oil emulsion may not look serious on the outside. However, injection into tissues that allow minimal swelling, especially areas like fingers and hands where there are a lot of tendons, are cause for great concern. The oil that has been injected is trapped, and it may travel along a tendon sheath or tissue plane. Within minutes severe pain and swelling may begin. The body reacts to the mineral oil by releasing enzymes to break down the emulsion. This process also slowly dissolves the tendon and muscle tissue of the finger or hand. Surgery may be required if the emulsion is not removed early.

Procedure to follow after accidental injection (**THE PROTOCOL FOR A PRESSURIZED OIL INJECTION IS RECOMMENDED**):

1. Immediately apply ice to the area of injection to help reduce potential swelling.
2. Seek medical attention as soon as possible. Take the MSDS sheet for the product with you so medical personnel can identify the materials injected.
3. The affected area should be cleaned as soon as possible. The antigen portion of the vaccine is of little risk to the victim and cannot be transmitted to people as it is merely protein, not whole cell bacteria. However, there is a risk of bacterial infection since the injection was not sterile. For this reason, antibiotics and a tetanus shot may be prudent.
4. Because the vaccine is an emulsion of mineral oil with surfactants, the fluid must be removed. Medical personnel should lance, locally debride and remove the emulsion before tissue reaction begins and causes inflammation.