

SAFETY DATA SHEETS

This SDS packet was issued with item:

078912875

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078421971 078422831

MATERIAL SAFETY DATA SHEET

Material Identity:

Escherichia Coli Bacterial Extract
USDA veterinary biologic product code 264E.01

SECTION I

Manufacturer's Name	Emergency Telephone Number
Epitopix, LLC	(320) 222-9822
Address	Telephone Number for Information
1801 Biotech Ave. NE	(320) 222-9822
Willmar, MN 56201	Date Prepared
	2/20/2009

SECTION II - Hazardous Ingredients / Identity Information

Hazardous Components	Percent
Formaldehyde (up to 0.15% of a 37% formaldehyde solution)	< 0.15%

General Description: Contains purified outer membrane protein of *Escherichia coli* serotype O157, in an oil-in-water emulsion with surfactants. Contains up to 25% Emulsigen®. Emulsigen is a mineral oil-in-water emulsion.

The information in this material safety data sheet has been compiled from information believed to be accurate and from the experience of the manufacturer. While Epitopix believes that the data presented is factual, Epitopix makes no warranty or representation, nor assumes 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 (oil content <20%). Contact a physician immediately.			

Carcinogenicity: NTP? yes IARC? yes
Formaldehyde is a known carcinogen. 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 - Preferrable 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.