



## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

### Product Identifier

**Material Names:**

- Salmonella Newport Bacterial Extract– USDA Product Code 2811.00
- Escherichia Coli Bacterial Extract – USDA Product Code 264E.01
- Klebsiella Pneumoniae Bacterial Extract – USDA Product Code 2879.00

**Synonyms:** SRP Vaccine

**Chemical Family:** Mixture

### Relevant Identified Uses of the Mixture and Uses Advised Against

**Intended Use:** Veterinary Vaccine

### Details of the Supplier of the Safety Data Sheet

**EpiTopix**

**360 NW 45<sup>th</sup> St**

**Willmar, MN 56201**

**American Association of Poison Control Centers Phone: 1-800-222-1222**

**Product Support/Technical Services Phone: 320-222-9807**

## 2. HAZARDS IDENTIFICATION

**Appearance:** White, opaque liquid

### Classification of the Substance of Mixture

**GHS Classification:** Not classified as hazardous

**EU Classification:** Not classified

### Label Elements

**Signal Word:** Not classified

**Hazard Statements:** Non-hazardous in accordance with international standards for workplace safety.



**Other Hazards**

**Short Term:** In the event of accidental injection, an allergic reaction may occur. If accidental injection happens, the worker should be seen by qualified medical personnel as soon as possible.

This product is a vaccine for use in animals. This vaccine is not pathogenic to humans or animals.

**Note:** This document has been prepared in accordance with standards for workplace safety, which require the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warnings included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your workplace.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Hazardous**

Ingredient	CAS Number	GHS Classification	%
Formaldehyde	50-00-0	Acute Tox. 3 (H301) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Car. 2 (H351) Acute Tox. 3 (H331)	</= 0.075%
Polymyxin B Sulfate	1405-20-5	Acute Tox. 4 (H302)	</= 30 µg/mL

**Non-Hazardous**

Ingredient	CAS Number	GHS Classification	%
EMULSIGEN®, Oil-in-water emulsion	Not Assigned	Not Listed	*
Buffered saline solution	Not Assigned	Not Listed	*
Bacterial Extract Protein	Not Assigned	Not Listed	*

**Additional Information:** \* Proprietary

**For the full text of the GHS abbreviations mentioned in the Section, see Section 16.**

**4. FIRST AID MEASURES**



### Description of First Aid Measures

**Eye Contact:** Immediately flush eyes with water for at least 15 minutes, If irritation or symptoms occur or persist, consult a physician

**Skin Contact:** Remove contaminated clothing. Flush area with large amounts of water. Use soap. If irritation or symptoms occur or persist, consult a physician.

**Ingestion:** Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical attention immediately.

**Inhalation:** Remove to fresh air and keep patient at rest. If irritation or symptoms occur or persist, consult a physician.

**Injection:** Seek medical attention immediately! Immediately apply ice to the area of injection to help reduce potential swelling. 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 a protein, not live bacteria. However, there is a risk of bacterial infection since the injection site was not sterile. For this reason, antibiotics and a tetanus shot may be prudent. Because the vaccine may be 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.

## 5. FIRE-FIGHTING MEASURES

**Extinguishing Media:** Extinguish fires with CO<sub>2</sub>, extinguishing powder, foam, or water.

### Special Hazards Arising from the Substance or Mixture

**Fire/Explosion Hazards:** Not flammable.

**Advice for Fire-Fighters:** During all firefighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.



## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

Personnel involved in clean-up should wear appropriate protective equipment (see Section 8).  
Minimize exposure.

### Environmental Precautions

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

### Methods and Material for Containment and Cleaning Up

**Measures for Cleaning / Collecting:** Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean spill area thoroughly.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

When handling, use appropriate personal protective equipment (see Section 8). Avoid contact with eyes, skin, and clothing. Avoid accidental injection. Wash thoroughly after handling. Releases into the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases.

### Conditions for Safe Storage, Including any Incompatibilities

**Storage Conditions:** Protect from direct sunlight and extreme temperatures.

**Storage Temperature:** 2-7°C. Do not freeze.

**Specific end use(s):** Veterinary Vaccine

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Refer to available public information for specific member state Occupational Exposure Limits.



**Formaldehyde**

- ACGIH Ceiling Threshold Limit:** 0.3 ppm
- ACGIH – Sensitizer Designation:** Sensitizer
- OSHA – Final PELs-TWAs:** 0.75 ppm
- OSHA - Specifically Regulated Chemicals:** 2 ppm, 0.5 ppm, 0.75 ppm

**Polymyxin B sulfate**

Polymyxin B sulfate does not contain any hazardous material with occupational exposure limits established by the region specific regulatory bodies.

**Recommended Personal Protective Equipment (PPE):**

**Respiratory Protection:** Under normal conditions of use, as stated on the product label, no respiratory protection is necessary.

**Skin Protection:** Gloves that provide an appropriate barrier to the skin are recommended if there is potential for contact with this material. Avoid dermal contact.

**Eye Protection:** Safety glasses or goggles.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

- Physical State:** Liquid
- Odor:** No data available
- Molecular Formula:** Mixture
- Color:** White, opaque
- pH:** 6.0-8.0
- Solubility in water:** Insoluble

**10. STABILITY AND REACTIVITY**

- Reactivity:** No data available
- Chemical Stability:** Stable
- Conditions to Avoid:** Store at 2-7°C. Prolonged exposure to higher temperature may adversely affect potency. Do not freeze.
- Hazardous Decomposition Products:** None expected under normal conditions.

## 11. TOXICOLOGICAL INFORMATION

**General Information:** The information included in this section describes the potential hazards of the individual ingredients. The antigens included in this product are non-infectious. All have been prepared from killed microorganisms. Toxicological properties of the formulation have not been investigated.

### Acute Toxicity

**Skin:** Formaldehyde – moderate to severe irritation and sensitizer.

**Eye:** Formaldehyde – severe irritation.

**Oral:** Formaldehyde – Oral LD50 in rat = 800 mg/kg. Polymyxin B Sulfate – harmful if swallowed, no lethal dose information available.

### Reproduction & Developmental Toxicity

**Formaldehyde:** Embryo / Fetal Development in mouse, oral 185 mg/kg/day, not teratogenic, maternal toxicity. Embryo / Fetal Development in rat, inhalation, 40 ppm, not teratogenic, maternal toxicity.

### Carcinogenicity

**Formaldehyde:** Known carcinogen to humans.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity Date:** This product has not been tested for ecotoxicity.

**Environmental Data:** There is no environmental data available for the product.

## 13. DISPOSAL CONSIDERATIONS

**Material Waste:** Disposal must be in accordance with applicable federal, state/provincial, and/or local regulations. Incineration is the preferred method of disposal, when appropriate.

## 14. TRANSPORT INFORMATION

This material is not subject to the transportation regulations of DOT, ICAO, IMO and ADR.



## 15. REGULATORY INFORMATION

**OSHA Status:** This product is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR1910.1200.

**TSCA Status:** This product is a food, food additive, drug, cosmetic, or medical or veterinary device or product as defined by section 201 of the Federal Food, Drug and Cosmetic Act and therefore is exempt from TSCA regulation.

## 16. OTHER INFORMATION

Text of GHS Classification abbreviations mentioned in Section 3

- H301 – Toxic if swallowed
- H302 – Harmful if swallowed
- H314 – Causes severe skin burns and eye damage
- H317 – May cause an allergic skin reaction
- H330 – Fatal if inhaled
- H331 – Toxic if inhaled
- H351 – Suspected of causing cancer