MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF PRODUCT AND COMPANY

Pfizer Inc  
Pfizer Animal Health  
235 East 42nd Street  
New York, NY 10017

Emergency telephone 1-866-531-8896  
Hours of operation 24 Hours  
Telephone 1-800-366-5288

Trade names RespiSure®; RespiSure-ONE™

Product name Mycoplasma Hyopneumoniae Bacterin

Therapeutic use Veterinary Vaccine

Description Milky, white liquid in vial

SECTION 2 - COMPOSITION

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS Number</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amphigen base</td>
<td>Not assigned</td>
<td>Proprietary</td>
</tr>
<tr>
<td>EDTA solution</td>
<td>Not assigned</td>
<td>Proprietary</td>
</tr>
<tr>
<td>Merthiolate (as mercury)*</td>
<td>54-64-8</td>
<td>Trace</td>
</tr>
<tr>
<td>Mycoplasma Hyopneumoniae</td>
<td>Not assigned</td>
<td>Proprietary</td>
</tr>
<tr>
<td>Polysorbate 80 - NF</td>
<td>9005-65-6</td>
<td>Proprietary</td>
</tr>
<tr>
<td>Sorbitan oleate*</td>
<td>1338-43-8</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>White mineral oil, NF*</td>
<td>8042-47-5</td>
<td>Proprietary</td>
</tr>
</tbody>
</table>

*Hazardous

Note: Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety.

SECTION 3 - HAZARDS IDENTIFICATION

Signal word CAUTION!

Statements of hazard MAY CAUSE RESPIRATORY TRACT IRRITATION

Eye effects May cause eye irritation.

Skin effects May cause allergic reaction.

Inhalation effects Exposure to high concentrations of vapor or mist may cause minor respiratory irritation. An Occupational Exposure Limit has been established for one or more of the ingredients (see Section 8).

Ingestion effects May cause lung damage if swallowed. Vomiting of petroleum-containing liquids can result in chemical pneumonitis.
SECTION 3 - HAZARDS IDENTIFICATION

Other potential health effects
In the event of accidental injection, an allergic reaction may occur. If an allergic reaction occurs, the worker should be removed to the nearest emergency room and the appropriate therapy instituted.

Route of entry
accidental injection

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.

SECTION 4 - FIRST AID MEASURES

Skin
Wash skin with soap and water. If irritation occurs or persists, get medical attention.

Eyes
Immediately flush eyes with water for at least 15 minutes. If irritation occurs or persists, get medical attention.

Inhalation
Remove to fresh air. If not breathing, give artificial respiration. Get medical attention immediately.

Ingestion
In the event of swallowing this material, seek medical assistance. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person.

Note to physician
This product contains petroleum distillate, aspiration into the lungs can result in pulmonary edema.

SECTION 5 - FIRE FIGHTING MEASURES

General hazard
This product is a nonflammable aqueous solution.

Fire fighting instructions
Dike and collect water used to fight fire.

Extinguishing media
As for primary cause of fire.

Flash point
Non-flammable

Hazardous combustion products
Toxic and corrosive gases including carbon monoxide and oxides of nitrogen may be generated.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

General
Review Sections 3, 8 and 12 before proceeding with clean up.
SECTION 6 - ACCIDENTAL RELEASE MEASURES

Small spill
Contain the source of the spill or leak. Use non-combustible absorbent material to wipe up spill and place in a sealed container for disposal.

Large spill
Contain the source of the spill or leak if it is safe to do so. Use appropriate containment to avoid environmental contamination. Dike, pump, or use non-combustible material to absorb spill; then place in a labeled container for disposal. Close container and move it to a secure holding area. Prevent runoff from entering drains, sewers, or streams.

SECTION 7 - HANDLING AND STORAGE

General handling
Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use appropriate personal protective equipment.

Storage conditions
Follow package instructions

Temperature range for storage
2-7°C. Do not freeze.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits

<table>
<thead>
<tr>
<th>Compound</th>
<th>Issuer</th>
<th>Type</th>
<th>OEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Merthiolate (as mercury)</td>
<td>OSHA</td>
<td>TWA-8 Hr</td>
<td>0.01 mg/m³ (skin)</td>
</tr>
<tr>
<td></td>
<td>ACGIH</td>
<td>TWA-8 Hr</td>
<td>0.1 mg/m³ (skin)</td>
</tr>
<tr>
<td>White mineral oil, NF</td>
<td>OSHA</td>
<td>TWA-8 HR</td>
<td>5 mg/m³ (Oil Mist, mineral)</td>
</tr>
</tbody>
</table>

Ventilation
In the event of a spill where the applicable Occupational Exposure Limit (OEL) may be exceeded, wear an appropriate respirator with a protection factor sufficient to control exposures below the OEL.

Respiratory protection

Eye protection
Not required under normal conditions of use. Wear eye protection if eye contact is possible.

Skin protection
None required for the normal use of this material. Wash hands and arms thoroughly after handling this material. Clean up spills immediately.

Hand protection
Not required for the normal use of this product. Wear impervious gloves if skin contact is possible.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical form</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>White</td>
</tr>
</tbody>
</table>
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES  ... continued

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clarity</td>
<td>Milky</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>Mixture</td>
</tr>
<tr>
<td>Molecular formula</td>
<td>Mixture</td>
</tr>
<tr>
<td>pH</td>
<td>7.0 +/- 1.5 standard pH units</td>
</tr>
<tr>
<td>Boiling point</td>
<td>&gt;100°C</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Density</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Water solubility</td>
<td>Components are soluble in water</td>
</tr>
<tr>
<td>Solvent solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>1.0 +/-0.2</td>
</tr>
</tbody>
</table>

SECTION 10 - STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactivity</td>
<td>Stable</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>Avoid extreme temperatures</td>
</tr>
<tr>
<td>Incompatibilities</td>
<td>Oxidizers</td>
</tr>
<tr>
<td>Hazardous decomposition products</td>
<td>None known</td>
</tr>
<tr>
<td>Hazardous polymerization</td>
<td>Will not occur</td>
</tr>
</tbody>
</table>

SECTION 11 - TOXICOLOGY INFORMATION

Toxicology summary  The antigens included in this product are non-infectious. All have been prepared from killed or inactivated preparations of microorganisms.

Acute toxicity

<table>
<thead>
<tr>
<th>Compound</th>
<th>Type</th>
<th>Route</th>
<th>Species</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polysorbate 80 - NF</td>
<td>LD₅₀</td>
<td>Oral</td>
<td>Rat</td>
<td>25,000 mg/kg</td>
</tr>
</tbody>
</table>

Eye  Not determined for this mixture. Oil vapors or mist may cause eye irritation.

Skin  Not determined for this mixture. No skin irritation expected based on individual components.
## SECTION 11 - TOXICOLOGY INFORMATION

### Inhalation
Not determined for this mixture. Oil vapors or mists may cause respiratory tract and mucous membrane irritation.

### Ingestion
May cause lung damage if swallowed. Vomiting of petroleum-containing liquids can result in chemical pneumonitis.

### Sensitization
This product contains merthiolate which is considered to be a skin sensitizer.

### Subchronic effects
High doses of sorbitan oleate fed to rats for 16 weeks resulted in kidney and liver effects.

### Chronic effects/carcinogenicity
No data available.

### Carcinogen status
None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

## SECTION 12 - ECOLOGICAL INFORMATION

### Environmental overview
The environmental characteristics of this material have not been fully evaluated. This product contains trace quantities of mercury, releases to the environment should be avoided.

## SECTION 13 - DISPOSAL INFORMATION

### Disposal procedure
Incineration is the recommended method of disposal for this material. Observe all local and national regulations when disposing of this mixture.

This product contains trace quantities of mercury and may qualify as a RCRA Hazardous Waste. Status should be confirmed using the EPA Toxicity Characteristic Leaching Procedure (TCLP).

## SECTION 14 - TRANSPORTATION INFORMATION

### General shipping instructions
Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

## SECTION 15 - REGULATORY INFORMATION

### EU Classification
Not classified.

### Canadian WHMIS
This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.
SECTION 16 - OTHER

Disclaimer

Pfizer Inc believes that the information contained in this Material Safety Data Sheet is accurate. While Pfizer provides this information in good faith, it does not expressly or impliedly warrant its accuracy.