## 1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Primatene Mist</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Name</td>
<td>Not available</td>
</tr>
<tr>
<td>Chemical Name</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Synonyms</td>
<td>Primatene Asthma Mist Inhaler, Epinephrin</td>
</tr>
<tr>
<td>Product Use</td>
<td>Pharmaceutical product</td>
</tr>
<tr>
<td>Classification</td>
<td>Adrenergic Agent</td>
</tr>
<tr>
<td>Supplier</td>
<td>Wyeth</td>
</tr>
<tr>
<td></td>
<td>P.O. Box 8299</td>
</tr>
<tr>
<td></td>
<td>Philadelphia, PA 19101 USA.</td>
</tr>
<tr>
<td></td>
<td>Telephone: 1-610-688-4400</td>
</tr>
</tbody>
</table>

Emergency Telephone Number

- Chemtrec USA, Puerto Rico, Canada 1-800-424-9300
- Chemtrec International 1-703-527-3887

## 2. HAZARDS IDENTIFICATION

**Emergency Overview**
This contains an active pharmaceutical ingredient that can affect body functions; handle with caution.

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Pharmaceutical Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Not available</td>
</tr>
</tbody>
</table>

**Potential Physical Hazards**
Containers may rupture or explode if exposed to heat. Flammable liquid

### Potential Health Effects

<table>
<thead>
<tr>
<th>Eyes</th>
<th>Irritating to eyes.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin</td>
<td>May cause irritation.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>The most common effects may include increased blood pressure, nervousness, sleeplessness, rapid heartbeat, tremors, and seizure.</td>
</tr>
<tr>
<td></td>
<td>May cause harm to the unborn child. May cause harm to breastfed babies.</td>
</tr>
</tbody>
</table>

Please see Patient Package Insert for further information.

<table>
<thead>
<tr>
<th>Ingestion</th>
<th>Not available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Therapeutic Target Organ(s)</td>
<td>Nervous system, Respiratory system.</td>
</tr>
</tbody>
</table>

**Potential Environmental Effects**
Contains CFC 12, 114 - substances which harm public health and environment by destroying ozone in the upper atmosphere.
### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Common Name</th>
<th>CAS-No</th>
<th>Composition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Epinephrine salts</td>
<td>Not applicable</td>
<td>0.22 mg/dose</td>
</tr>
<tr>
<td>Ethyl Alcohol</td>
<td>64-17-5</td>
<td>34%</td>
</tr>
<tr>
<td>Hydrochloric Acid (2N)</td>
<td>7647-01-0</td>
<td>1.104%</td>
</tr>
<tr>
<td>Dichlorofluoromethane (CFC 12)</td>
<td>75-43-4</td>
<td>24.914%</td>
</tr>
<tr>
<td>Dichlorotetrafluoroethane (CFC 114)</td>
<td>76-14-2</td>
<td>37.371%</td>
</tr>
<tr>
<td>Inactive Ingredients</td>
<td>Not applicable</td>
<td>Remainder</td>
</tr>
</tbody>
</table>

### 4. FIRST AID MEASURES

**Eye Contact**
In the case of contact with eyes, rinse immediately with plenty of water for 15 minutes and seek medical advice.

**Skin Contact**
Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.

**Inhalation**
Move to fresh air. Artificial respiration and/or oxygen may be necessary. If symptoms persist, call a physician.

**Ingestion**
If symptoms persist, call a physician. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

### 5. FIRE-FIGHTING MEASURES

**Flammable Properties**
Flammable liquid. Vapors may cause flash fire or explosion.

**Extinguishing Media**
- **Suitable Extinguishing Media**
  - Use water spray, foam, dry chemical or carbon dioxide.
- **Unsuitable Extinguishing Media**
  - Do NOT use water jet.

**Fire Fighting**
Evacuate area and fight fire from a safe distance. Cool closed containers exposed to fire with water spray. In the event of fire and/or explosion do not breathe fumes.

**Hazardous Combustion Products**
Carbon oxides, nitrogen oxides.

**Protective Equipment and Precautions for Firefighters**
In the event of fire, wear self-contained breathing apparatus and special protective equipment for fire fighters.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions**
Refer to protective measures listed in Sections 7 and 8.

**Environmental Precautions**
Prevent product from entering drains. Local authorities should be advised if a significant spill cannot be contained. Contains CFC 12, 114, substances which harm public health and environment by destroying ozone in the upper atmosphere.

**Methods for Containment**
Keep away from heat and sources of ignition.

**Methods for Cleaning up**
Take up mechanically and collect in suitable container for disposal. Clean contaminated surface thoroughly. Avoid formation of dust and aerosols.
7. HANDLING AND STORAGE

Handling
For personal protection see Section 8. Handle in accordance with good industrial hygiene and safety practice. Skin should be washed after contact. Avoid formation of dust and aerosols.

Storage
Keep away from open flames, hot surfaces and sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Common Name Exposure Guideline
Hydrochloric Acid (2N) Ceiling 2 ppm (ACGIH)
Dichlorofluoromethane (CFC 12) 10 ppm (ACGIH)
Dichlorotetrafluoroethane (CFC 114) 1000 ppm (ACGIH)
Ethyl Alcohol 1000 ppm

Engineering Controls
Apply technical measures to comply with the occupational exposure guideline. Local exhaust ventilation is needed for limited open handling or where aerosols may be generated.

Personal Protective Equipment
Eye/face Protection
Provide eye protection based on risk assessment.
Skin Protection
Wear nitrile or latex gloves. Wear protective garment.
Respiratory Protection
Base respirator selection on a risk assessment.

General Hygiene Considerations
When using, do not eat, drink or smoke. General industrial hygiene practice. Wash hands before breaks and at the end of workday.

Other
Limit access to only personnel trained in the safe handling of this material. Consult a health and safety professional for specific PPE, respirator, and risk assessment guidance.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Pharmaceutical Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Cream</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Partition Coefficient (n-octanol/water)</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td>Upper Not available</td>
</tr>
<tr>
<td>Explosion Limits</td>
<td>Upper Not available</td>
</tr>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Not available</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not available</td>
</tr>
<tr>
<td>Autoignition Temperature Method</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Upper</td>
<td>Not available</td>
</tr>
<tr>
<td>Lower</td>
<td>Not available</td>
</tr>
</tbody>
</table>
10. STABILITY AND REACTIVITY

Chemical Stability
Stable at room temperature.

Conditions to Avoid
Keep away from heat and sources of ignition.

Materials to Avoid
No materials to be especially mentioned.

Hazardous Decomposition Products
None under normal use.

Possibility of Hazardous Reactions
None under normal use.

11. TOXICOLOGICAL INFORMATION

The following effects are based on the Active Pharmaceutical Ingredient.

Acute Toxicity

Ethyl Alcohol
LD50 Oral
7060 mg/kg rats, 8300 mg/kg mice
Acute Dermal Irritation
Moderate irritation effects in rabbits.
Primary Eye Irritation
Severe irritation effects in rabbits.
Sensitization
Not applicable

Epinephrine salts
LD50 Oral
No data available
Acute Dermal Irritation
No data available
Primary Eye Irritation
No data available
Sensitization
No data available

Multiple Dose Toxicity

Ethyl Alcohol
No Toxicologic Effect
Dose/Species/Study Length:
Repeated contact can dry the skin with cracking, peeling, and itching. Repeated high exposure may affect the liver and nervous system.

Epinephrine salts
No Toxicologic Effect
Dose/Species/Study Length:
No data available

Maximum Tolerated Dose (MTD), Oral

Ethyl Alcohol
Carcinogenicity
No data available
Genetic Toxicity
May cause genetic changes.
Reproductive Toxicity
See Developmental Toxicity.
Developmental Toxicity
Repeated exposure may cause spontaneous abortions, as well as birth defects and other developmental problems (fetal alcohol syndrome).

Epinephrine salts
Carcinogenicity
No data available
Genetic Toxicity
No data available
Reproductive Toxicity
No data available
12. ECOLOGICAL INFORMATION

The following effects are based on the Active Pharmaceutical Ingredient.

Chemical Fate Information
Not available

Ecotoxicity
Not available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method
No data available

14. TRANSPORT INFORMATION

Transport Information
This material is not classified as hazardous for transport.

U.S. Department of Transport (DOT)
Proper Shipping Name: Consumer Commodity
Hazard Class: ORM-D
UN-No: Not assigned
Packing Group: Not assigned

Canadian Transport of Dangerous Goods (TDG)
Not regulated

International Civil Aviation Organization (ICAO)
Not regulated

International Air Transport Association (IATA)
Proper Shipping Name: Consumer Commodity
Hazard Class: 9
UN-No: ID 8000
Packing Group: Not assigned (treat as PG II)

International Maritime Dangerous Goods (IMDG)/International Maritime Organization (IMO)
Not regulated

Transport of Dangerous Goods by Rail (RID)
Not regulated

Transport of Dangerous Goods by Road (ADR)
Not regulated

Transportation of Dangerous Goods via Inland Waterways (ADN)
Not regulated

15. REGULATORY INFORMATION

USA

Federal Regulations
OSHA Regulatory Status
This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

<table>
<thead>
<tr>
<th>Common Name</th>
<th>CAS-No</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dichlorofluoromethane (CFC 12)</td>
<td>75-43-4</td>
<td>&gt; 1</td>
</tr>
<tr>
<td>Dichlorotetrafluoroethane (CFC 114)</td>
<td>76-14-2</td>
<td>&gt; 1</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazardous Categorization
- Acute Health Hazard: No
- Chronic Health Hazard: No
- Fire Hazard: No
- Sudden Release of Pressure Hazard: Yes
- Reactive Hazard: No

This product does not contain any HAPs.

State Regulations
California Proposition 65
Ethyl alcohol (ethanol) is listed.

Canada
Not classified

WHMIS Hazard Class
Non-controlled

European Union
In accordance with EC directives or respective national laws, the product does not need to be classified nor labeled.
16. OTHER INFORMATION

Prepared By
Wyeth Department of Environment, Health & Safety

Format
This MSDS was prepared in accordance with ANSI Z400.1-2004.

List of References
See Patient Package Insert for more information.

Revision Summary
Changes to Section 3, 13

Disclaimer:
The information, data, recommendations, and suggestions appearing in this material safety data sheet (MSDS) and/or in materials regarding our active pharmaceutical ingredients (APIs) or products are based upon tests and data believed to be reliable as of the date of publication. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS MADE WITH REGARD TO THE INFORMATION PROVIDED IN THE MSDS, REGARDING THE API, OR THE PRODUCT TO WHICH THE INFORMATION PERTAINS. Accordingly, Wyeth will not be responsible for any damages resulting from use of, or reliance upon, this information as conditions of use are beyond our control. Users are responsible for assuring the safety of their workers and safe operating conditions, and for determining whether the API or product is suitable for their particular purposes. Users shall assume all risks of their use, handling, and disposal of the API and/or product in accordance with all appropriate and applicable regulations. This information relates only to the API or product designated herein, and does not relate to its use in combination with any other API, material, product, or process. No permission is granted for the use of any API or product in a manner that might infringe on existing patents.

End of MSDS