1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name**
Robitussin Solid Products

**Common Name**
Not applicable

**Chemical Name**
Not applicable

**Synonyms**
Robitussin Cough Products, Robitussin Cough & Cold Products, Robitussin Congestion Products, Robitussin Cough, Cold and Flu Products, Robitussin Cough & Allergy Products, Robitussin Pediatric Products, Robitussin Vitamin C Products

**Product Use**
Pharmaceutical product

**Classification**
Analgesic, Antihistamine, Antitussive, Decongestant, Expectorant, Central Nervous System Agent

**Supplier**
Wyeth
P.O. Box 8299
Philadelphia, PA 19101 USA.
Telephone: 1-610-688-4400

**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>Physical State</th>
<th>Odor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharmaceutical tablet or capsule, Cough drop</td>
<td>Solid</td>
<td>Not available</td>
</tr>
</tbody>
</table>

**Potential Physical Hazards**
None known

**Potential Health Effects**

<table>
<thead>
<tr>
<th>Eyes</th>
<th>Not available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin</td>
<td>Not available</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Not available</td>
</tr>
<tr>
<td>Ingestion</td>
<td>The most common effects may include allergy, drowsiness, nervousness, excitability, dizziness, and sleeplessness. May impair ability when driving a motor vehicle or operating machinery. May cause harm to the unborn child. May cause harm to breastfed babies. Please see Patient Package Insert for further information.</td>
</tr>
</tbody>
</table>

**Therapeutic Target Organ(s)**
Nervous system, respiratory system.

**Potential Environmental Effects**
See Section 12.
### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Common Name</th>
<th>CAS-No</th>
<th>Composition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetaminophen</td>
<td>103-90-2</td>
<td>0 - 250 mg/tablet or drop</td>
</tr>
<tr>
<td>Chlophedianol HCl</td>
<td>511-13-7</td>
<td>0 - 30 mg/tablet or drop</td>
</tr>
<tr>
<td>Pseudoephedrine HCl</td>
<td>345-78-8</td>
<td>0 - 30 mg/tablet or drop</td>
</tr>
<tr>
<td>Vitamin C (Ascorbic Acid)</td>
<td>50-81-7</td>
<td>0 - 60 mg/tablet or drop</td>
</tr>
<tr>
<td>Guaifenesin</td>
<td>93-14-1</td>
<td>0 - 200 mg/tablet or drop</td>
</tr>
<tr>
<td>Menthol</td>
<td>1490-04-6</td>
<td>0 - 5 mg/tablet or drop</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**

Presumed to be a combustible particulate solid.

**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.

**Methods for Containment**

Not available

**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
No special safety precautions required. Keep container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Common Name</th>
<th>Exposure Guideline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetaminophen</td>
<td>2000 mcg/m³</td>
</tr>
<tr>
<td>Chlophedianol HCl</td>
<td>None assigned</td>
</tr>
<tr>
<td>Pseudoephedrine HCl</td>
<td>200 mcg/m³</td>
</tr>
<tr>
<td>Guaifenesin</td>
<td>3000 mcg/m³</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Eye/face Protection</th>
<th>Skin Protection</th>
<th>Respiratory Protection</th>
</tr>
</thead>
</table>

General Hygiene
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>Appearance</th>
<th>Physical State</th>
<th>Color</th>
<th>Odor Threshold</th>
<th>pH</th>
<th>Specific Gravity</th>
<th>Solubility</th>
<th>Partition Coefficient (n-octanol/water)</th>
<th>Boiling Point</th>
<th>Flash Point</th>
<th>Melting Point</th>
<th>Flammability Limits in Air</th>
<th>Explosion Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharmaceutical tablet or capsule, Cough drop</td>
<td>Solid</td>
<td>Various</td>
<td>Not available</td>
<td>Not available</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not available</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Upper</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Cough drop</td>
<td>Physical State</td>
<td>Color</td>
<td>Odor Threshold</td>
<td>pH</td>
<td>Specific Gravity</td>
<td>Solubility</td>
<td>Partition Coefficient (n-octanol/water)</td>
<td>Boiling Point</td>
<td>Flash Point</td>
<td>Melting Point</td>
<td>Flammability Limits in Air</td>
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</tr>
<tr>
<td>Solid</td>
<td>Not available</td>
<td>Various</td>
<td>Not available</td>
<td>Not available</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not available</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Upper</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

Revision Date 31-Mar-2008
10. STABILITY AND REACTIVITY

Chemical Stability
Stable at room temperature.

Conditions to Avoid
No data available

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

Acetaminophen
- LD50 Oral: 2404 mg/kg rats
- Acute Dermal Irritation: No data available
- Primary Eye Irritation: No data available
- Sensitization: No data available

Chlophedianol HCl
- LD50 Oral: 350 mg/kg rats
- Acute Dermal Irritation: Not applicable
- Primary Eye Irritation: Not applicable
- Sensitization: Not applicable

Pseudoephedrine HCl
- LD50 Oral: 371 mg/kg mice
- Acute Dermal Irritation: No data available
- Primary Eye Irritation: No data available
- Sensitization: No data available

Vitamin C (Ascorbic Acid)
- LD50 Oral: >11 gm/kg rats
- Acute Dermal Irritation: No data available
- Primary Eye Irritation: No data available
- Sensitization: No data available

Guaifenesin
- LD50 Oral: 1510 mg/kg rats
- Acute Dermal Irritation: Not applicable
- Primary Eye Irritation: Not applicable
- Sensitization: Not applicable

Menthol
- LD50 Oral: 3180 mg/kg rats
- Acute Dermal Irritation: 5000 mg/kg rats; slightly irritating to rabbit skin.
- Primary Eye Irritation: Not irritating to rabbit eyes.
- Sensitization: Not a dermal sensitizer in the guinea pig.
Multiple Dose Toxicity
See Carcinogenicity

Maximum Tolerated Dose (MTD), Oral

Acetaminophen
Carcinogenicity
Under the conditions of the National Toxicology Program (NTP) studies, there was no evidence of carcinogenic activity in male rats or mice. Equivocal evidence was seen in female rats. IARC Category 3.

Genetic Toxicity
Not mutagenic in AMES Test. Induced sister chromatid exchanges and chromosomal aberrations in cytogenetic tests using Chinese hamster ovary cells.

Reproductive Toxicity
Testicular atrophy and inhibition of spermatogenesis was seen in animal studies at high dose levels. Relevance to humans is not known.

Developmental Toxicity
See Reproductive Toxicity

Acetaminophen
Target Organ(s) of Toxicity
No data available

12. ECOLOGICAL INFORMATION

The following effects are based on the Active Pharmaceutical Ingredient.

Chemical Fate Information

Chlphedianol HCl
Mobility
Not available
Biodegradability
Not available
Stability in Water
Not available
Bioaccumulation
Not available

Vitamin C (Ascorbic Acid)
Mobility
Not available
Biodegradability
Not available
Stability in Water
Not available
Bioaccumulation
Does not accumulate in organisms.

Ecotoxicity

Chlphedianol HCl
Microorganisms
Not available
Algae
Not available
Daphnia
Not available
Fish
Not available

Vitamin C (Ascorbic Acid)
Microorganisms
Not available
Algae
Not available
Daphnia
Not available
Fish
Not available
13. DISPOSAL CONSIDERATIONS

Waste Disposal Method
Dispose of in accordance with local and national regulations.

14. TRANSPORT INFORMATION

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

- U.S. Department of Transport (DOT) Not regulated
- Canadian Transport of Dangerous Goods (TDG) Not regulated
- International Civil Aviation Organization (ICAO) Not regulated
- International Air Transport Association (IATA) Not regulated
- 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 does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40n of the Code of Federal Regulations, Part 372.

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

This product does not contain any HAPs.

State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

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
Product Profiles

Revision Summary
Changes to Section 8

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End of MSDS