## Material Safety Data Sheet

### Section 1. Chemical Product and Company Identification

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HMIS</th>
<th>Personal Protective Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0</td>
<td>See Section 15.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Common Name/Trade Name</th>
<th>Catalog Number(s).</th>
<th>CAS#</th>
<th>RTECS</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diphenhydramine HCl</td>
<td>YY573, DI160</td>
<td>147-24-0</td>
<td>KR7000000</td>
<td>TSCA 8(b) inventory: No products were found.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commercial Name(s)</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

### Synonym

- Allergan; Allergival; Ambenyl; Bena; Benadryl; Bendylate; Benzantin hydrochloride; Benzhydramine hydrochloride; Benzhydrol, beta-dimethylaminoethyl ether hydrochloride; 2-(Benzhydryloxy)-N,N-dimethylethylamine hydrochloride; Carphenamine; Carphenex; Cathejell; Denydryl; Difenhydramine hydrochloride; Dimedrol; Dimedrol hydrochloride; Dimedrolum; beta-Dimethylaminoethyl benzhydryl ether hydrochloride; Dipamine; Diphenylydramine hydrochloride; 2-(Diphenylimethoxy)-N,N-dimethylethylamine hydrochloride; Dobacen hydrochloride; Eldadryl; Felben; Fenylhist; alpha-Hydroxydiphenylmethane-beta-dimethylaminooethyl ether hydrochloride; Noctomin; Paradryl; Prodryl; Resmin; Restamin; Vena; Benzantin; Halbmond; Histacyl; Sedopretten; Sekundal-D; Wehydryl; Beldin; Belix; Dibenil; Diphen; Hydramine; Silphen; 2-Diphenylmethoxy-N,N-dimethylethylamine hydrochloride; 2-Diphenylmethoxy-N,N-dimethylthylamine hydrochloride; Ethanamine, 2-(diphenylmethoxy)-N,N-dimethyl-, hydrochloride; Ethylamine, N,N-dimethyl-2-(diphenylmethoxy)-, hydrochloride |

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Ethylamine, 2-(diphenylmethoxy)-N,N-dimethyl-, hydrochloride</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Family</td>
<td>Not available.</td>
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<tr>
<td>Chemical Formula</td>
<td>C17H2NO.HCl</td>
</tr>
<tr>
<td>Supplier</td>
<td>SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248</td>
</tr>
</tbody>
</table>

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**IN CASE OF EMERGENCY**

CHEMTREC (24hr) 800-424-9300

**CALL (310) 516-8000**
Section 2. Composition and Information on Ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS #</th>
<th>TWA (mg/m³)</th>
<th>STEL (mg/m³)</th>
<th>CEIL (mg/m³)</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) Diphenhydramine HCl</td>
<td>147-24-0</td>
<td></td>
<td></td>
<td></td>
<td>100</td>
</tr>
</tbody>
</table>

Toxicological Data on Ingredients

Diphenhydramine HCl:

**ORAL (LD50):** Acute: 500 mg/kg [Rat]. 700 mg/kg [Rat]. 164 mg/kg [Mouse].

Section 3. Hazards Identification

**Potential Acute Health Effects**
Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation.

**Potential Chronic Health Effects**

CARCINOGENIC EFFECTS: Classified 3 (equivocal evidence) by NTP.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.
The substance may be toxic to cardiovascular system, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4. First Aid Measures

**Eye Contact**
Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.

**Skin Contact**
Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

**Serious Skin Contact**
Not available.

**Inhalation**
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Serious Inhalation**
Not available.

**Ingestion**
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

**Serious Ingestion**
Not available.

Section 5. Fire and Explosion Data

**Flammability of the Product**
May be combustible at high temperature.

**Auto-Ignition Temperature**
Not available.

**Flash Points**
Not available.

**Flammable Limits**
Not available.

**Products of Combustion**
These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2...).

**Fire Hazards in Presence of Various Substances**
Slightly flammable to flammable in presence of heat.

**Explosion Hazards in Presence of Various Substances**
Risks of explosion of the product in presence of mechanical impact: Not available.
Risks of explosion of the product in presence of static discharge: Not available.

**Fire Fighting Media and Instructions**
SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

**Special Remarks on Fire Hazards**
Not available.

Continued on Next Page
**Special Remarks on Explosion Hazards**

Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

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### Section 6. Accidental Release Measures

#### Small Spill

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

#### Large Spill

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

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### Section 7. Handling and Storage

#### Precautions

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.

#### Storage

Keep container tightly closed. Keep container in a cool, well-ventilated area. Sensitive to light. Store in light-resistant containers.

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### Section 8. Exposure Controls/Personal Protection

#### Engineering Controls

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

#### Personal Protection

Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

#### Personal Protection in Case of a Large Spill

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

#### Exposure Limits

Not available.

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### Section 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical state and appearance</th>
<th>Odor</th>
<th>Molecular Weight</th>
<th>Taste</th>
<th>Odor Threshold</th>
<th>Water/Oil Dist. Coeff.</th>
<th>Ionicity (in Water)</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH (1% soln/water)</td>
<td>Not available.</td>
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<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Boiling Point</td>
<td>Not available.</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Melting Point</td>
<td>166°C (330.8°F) - 172 C.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Critical Temperature</td>
<td>Not available.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>Not available.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not applicable.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not available.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Volatility</td>
<td>Not available.</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Dispersion Properties</td>
<td>See solubility in water.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solubility</td>
<td>Easily soluble in cold water, hot water.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

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Continued on Next Page
### Section 10. Stability and Reactivity Data

<table>
<thead>
<tr>
<th>Stability</th>
<th>The product is stable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instability Temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Conditions of Instability</td>
<td>Excess, incompatible materials, light</td>
</tr>
<tr>
<td>Incompatibility with various substances</td>
<td>Reactive with oxidizing agents.</td>
</tr>
<tr>
<td>Corrosivity</td>
<td>Non-corrosive in presence of glass.</td>
</tr>
<tr>
<td>Special Remarks on Reactivity</td>
<td>Sensitive to light. Darkens on exposure to light.</td>
</tr>
<tr>
<td>Special Remarks on Corrosivity</td>
<td>Not available.</td>
</tr>
<tr>
<td>Polymerization</td>
<td>Will not occur.</td>
</tr>
</tbody>
</table>

### Section 11. Toxicological Information

#### Routes of Entry
- Inhalation
- Ingestion

#### Toxicity to Animals
- Acute oral toxicity (LD50): 164 mg/kg [Mouse].

#### Chronic Effects on Humans
- CARCINOGENIC EFFECTS: Classifed 3 (Equivocal evidence) by NTP.
- May cause damage to the following organs: cardiovascular system, central nervous system (CNS).

#### Other Toxic Effects on Humans
- Hazardous in case of ingestion.
- Slightly hazardous in case of skin contact (irritant), of inhalation.

#### Special Remarks on Toxicity to Animals
- Lethal Dose/Conc 50% Kill: LD50[Guinea Pig] - Route: Oral; Dose: 280 mg/kg
- May affect genetic material (mutagenic) May cause cancer based on animal test data. Equivocal tumorigenic agent by RTECS criteria.
- May cause adverse reproductive effects and birth defects (teratogenic)

#### Special Remarks on Chronic Effects on Humans
- Acute Potential Health Effects:
  - Skin: May cause skin irritation.
  - Eyes: May cause eye irritation.
  - Inhalation: May cause respiratory tract irritation.
- Ingestion: Hazardous if swallowed. May cause nausea or vomiting. May affect behavior/central nervous system (hallucinations, coma, ataxia, convulsions, excitement, somnolence, tremor, muscle contraction or spasticity), nervous system (autonomic nervous system - Parasympatholytic; peripheral nervous system sensory change involving peripheral nerve), liver, urinary system, cardiovascular system (arythmias), respiration (dyspnea (shortness of breath and difficulty breathing), respiratory depression.
- Chronic Potential Health Effects:
  - Ingestion: Prolonged or repeated ingestion cause weight loss, and may affect the liver (fatty liver degeneration), urinary system, behavior/central nervous system (see acute ingestion), respiration (see acute ingestion).

#### Special Remarks on other Toxic Effects on Humans

### Section 12. Ecological Information

#### Ecotoxicity
- Not available.

#### BOD5 and COD
- Not available.

#### Products of Biodegradation
- Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

#### Toxicity of the Products of Biodegradation
- The products of degradation are less toxic than the product itself.

#### Special Remarks on the Products of Biodegradation
- Not available.
Section 13. Disposal Considerations

Waste Disposal
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14. Transport Information

DOT Classification
Not a DOT controlled material (United States).

Identification
Not applicable.

Special Provisions for Transport
Not applicable.

DOT (Pictograms)

Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations
No products were found.

California Proposition 65 Warnings
California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found.
California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.

Other Regulations
EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS No. 205-687-2).
Canada: Listed on Canadian Domestic Substance List (DSL).
China: Not listed on National Inventory.
Japan: Listed on National Inventory (ENCS).
Korea: Not listed on National Inventory (KECI).
Philippines: Not listed on National Inventory (PICCS).
Australia: Listed on AICS.

Other Classifications
WHMIS (Canada) CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC).
DSCL (EEC) R22: Harmful if swallowed.
S46- If swallowed, seek medical advice immediately and show this container or label.

HMIS (U.S.A.)

<table>
<thead>
<tr>
<th>Health Hazard</th>
<th>National Fire Protection Association (U.S.A.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Health</td>
</tr>
<tr>
<td>1</td>
<td>Reactivity</td>
</tr>
<tr>
<td>0</td>
<td>Specific hazard</td>
</tr>
</tbody>
</table>

WHMIS (Canada) (Pictograms)

DSCL (Europe) (Pictograms)

Continued on Next Page
### Protective Equipment

Gloves.

Lab coat.

Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Safety glasses.

### Section 16. Other Information

<table>
<thead>
<tr>
<th>MSDS Code</th>
<th>D3490</th>
</tr>
</thead>
<tbody>
<tr>
<td>References</td>
<td>Not available.</td>
</tr>
<tr>
<td>Other Special Considerations</td>
<td>Not available.</td>
</tr>
</tbody>
</table>


Verified by Sonia Owen.


### Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user’s responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.