## Material Safety Data Sheet

### Section 1. Chemical Product and Company Identification

<table>
<thead>
<tr>
<th>Common Name/ Trade Name</th>
<th>Catalog Number(s).</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzocaine</td>
<td>YY1074, BE130</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECTRUM LABORATORY PRODUCTS INC.</td>
<td>14422 S. SAN PEDRO STREET GARDENA, CA 90248</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Commercial Name(s)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Americaine; Anaesthesin; Anesthesin; Anesthone; Keflorm; Norcain; Orthesin; Parathesin; Topcaine</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Synonym</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl aminobenzoate; 4-Aminobenzoic acid, ethyl ester; Ethyl 4-aminobenzoate; Ethyl p-aminobenzoate; p-Aminobenzoic acid ethyl ester</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzoic acid, p-amino, ethyl ester</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Family</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Formula</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>C9H11NO2</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Supplier</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECTRUM LABORATORY PRODUCTS INC.</td>
<td>14422 S. SAN PEDRO STREET GARDENA, CA 90248</td>
</tr>
</tbody>
</table>

### 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) Benzocaine</td>
<td>94-09-7</td>
<td></td>
<td></td>
<td></td>
<td>100</td>
</tr>
</tbody>
</table>

### Toxicological Data on Ingredients

**Benzocaine:**
- **ORAL (LD50):**
  - Acute: 2500 mg/kg [Mouse].
  - 3042 mg/kg [Rat].

### Section 3. Hazards Identification

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

#### Potential Chronic Health Effects
- Slightly hazardous in case of skin contact (sensitizer).
- **CARCINOGENIC EFFECTS:** Not available.
- **MUTAGENIC EFFECTS:** Not available.
- **TERATOGENIC EFFECTS:** Not available.
- **DEVELOPMENTAL TOXICITY:** Not available.
- The substance may be toxic to blood, central nervous system (CNS).
- Repeated or prolonged exposure to the substance can produce target organs damage.

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**Continued on Next Page**
### 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. Get medical attention. |
| Skin Contact | In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention. |
| Serious Skin Contact | Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention. |
| 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. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear. |
| Serious Ingestion | Not available. |

### Section 5. Fire and Explosion Data

| Flammability of the Product | May be combustible at high temperature. |
| Auto-Ignition Temperature | >450°C (842°F) |
| Flash Points | CLOSED CUP: >100°C (212°F). |
| 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. |
| 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 | As with most organic solids, fire is possible at elevated temperatures |
| 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. |

### 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. |

**Continued on Next Page**
### Section 7. Handling and Storage

**Precautions**
Keep away from heat. Keep away from sources of ignition. Do not ingest. Do not breathe dust. Avoid contact with eyes. 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, reducing agents, acids, alkalis.

**Storage**
Keep container tightly closed. Keep container in a cool, well-ventilated area.

### 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**
Splash goggles. 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.

### Section 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state and appearance</td>
<td>Solid. (Crystals solid. Crystalline powder.)</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>165.21 g/mole</td>
</tr>
<tr>
<td>pH (1% soln/water)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>172°C (341.6°F) @ 17 hPA</td>
</tr>
<tr>
<td>Melting Point</td>
<td>89°C (192.2°F) - 92°C</td>
</tr>
<tr>
<td>Critical Temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Volatility</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless.</td>
</tr>
<tr>
<td>Taste</td>
<td>Not available.</td>
</tr>
<tr>
<td>Color</td>
<td>White. Off-white.</td>
</tr>
<tr>
<td>Water/Oil Dist. Coeff.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Ionicity (in Water)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Dispersion Properties</td>
<td>Not available.</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in cold water. Practically insoluble in water. Solubility in water: 0.04 g/100 ml water @ 25 deg. C</td>
</tr>
</tbody>
</table>

### Section 10. Stability and Reactivity Data

**Stability**
The product is stable.

**Instability Temperature**
Not available.

**Conditions of Instability**
Excess heat, incompatible materials, dust generation

**Incompatibility with various substances**
Reactive with oxidizing agents, reducing agents, acids, alkalis.

*Continued on Next Page*
Benzocaine

### Section 11. Toxicological Information

<table>
<thead>
<tr>
<th>Corrosivity</th>
<th>Non-corrosive in presence of glass.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Special Remarks on Reactivity</strong></td>
<td>Air and light sensitive.</td>
</tr>
<tr>
<td><strong>Special Remarks on Corrosivity</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Polymerization</strong></td>
<td>Will not occur.</td>
</tr>
</tbody>
</table>

#### Routes of Entry
- Inhalation.
- Ingestion.

#### Toxicity to Animals
- Acute oral toxicity (LD50): 2500 mg/kg [Mouse].

#### Chronic Effects on Humans
- May cause damage to the following organs: blood, central nervous system (CNS).

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

#### Special Remarks on Toxicity to Animals
- Not available.

#### Special Remarks on Chronic Effects on Humans
- Not available.

#### Special Remarks on other Toxic Effects on Humans
- Acute Potential Health Effects:
  - Skin: Can cause mild skin irritation.
  - Eyes: Causes eye irritation.
  - Inhalation: Dust causes respiratory tract irritation. Symptoms may include coughing.
  - Ingestion: May cause gastrointestinal tract irritation with nausea, vomiting, diarrhea. May affect respiration (dyspnea, cyanosis). May affect behavior/central nervous system (ataxia).
  - Note: Causes anesthetizing effect to the tongue and lips.
- Chronic Potential Health Effects:
  - Skin: Prolonged or repeated contact may cause dermatitis, an allergic skin reaction.
  - Ingestion: Prolonged or repeated ingestion may cause methemoglobinemia, which is characterized by chocolate-brown colored blood, headache, weakness, dizziness, shortness of breath, cyanosis (a bluish discoloration of the skin, lips, nails due to deficient oxygenation of the blood), rapid heart rate, unconsciousness and possible death.

### Section 12. Ecological Information

<table>
<thead>
<tr>
<th>Ecotoxicity</th>
<th>Not available.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BOD5 and COD</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Products of Biodegradation</strong></td>
<td>Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.</td>
</tr>
<tr>
<td><strong>Toxicity of the Products of Biodegradation</strong></td>
<td>The product itself and its products of degradation are not toxic.</td>
</tr>
<tr>
<td><strong>Special Remarks on the Products of Biodegradation</strong></td>
<td>Not available.</td>
</tr>
</tbody>
</table>

### Section 13. Disposal Considerations

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

*Continued on Next Page*
### Section 14. Transport Information

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

**Identification**  
Not applicable.

**Special Provisions for Transport**  
Not applicable.

**DOT (Pictograms)**  
![No pictogram](image)

### Section 15. Other Regulatory Information and Pictograms

**Federal and State Regulations**  
TSCA 8(b) inventory: Benzocaine

**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.

**Other Classifications**

<table>
<thead>
<tr>
<th>WHMIS (Canada)</th>
<th>DSCL (EEC)</th>
<th>TSCA 8(b) inventory: Benzocaine</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLASS D-2B: Material causing other toxic effects (TOXIC).</td>
<td>R36/37/38- Irritating to eyes, respiratory system and skin. R43- May cause sensitization by skin contact.</td>
<td></td>
</tr>
</tbody>
</table>

**HMIS (U.S.A.)**

<table>
<thead>
<tr>
<th>Health Hazard</th>
<th>Fire Hazard</th>
<th>Reactivity</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
<td>0</td>
<td>E</td>
</tr>
</tbody>
</table>

**National Fire Protection Association (U.S.A.)**

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
<th>Specific hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

**WHMIS (Canada) (Pictograms)**  
![Pictogram](image)

**DSCL (Europe) (Pictograms)**  
![Pictogram](image)

**TDG (Canada) (Pictograms)**  
![Pictogram](image)

*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.

Splash goggles.

Section 16. Other Information

<table>
<thead>
<tr>
<th>MSDS Code</th>
<th>B3350</th>
</tr>
</thead>
<tbody>
<tr>
<td>References</td>
<td>Not available.</td>
</tr>
<tr>
<td>Other Special Considerations</td>
<td>Use: Topical anesthetic</td>
</tr>
</tbody>
</table>

Verified by Sonia Owen.  

CALL (310) 516-8000

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.