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>
<th>CAS#</th>
<th>RTECS</th>
<th>TSCA</th>
<th>CI#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic fuchsin</td>
<td>BA130</td>
<td>569-61-9</td>
<td>CX9850100</td>
<td>TSCA 8(b) inventory: Basic fuchsin</td>
<td>42500</td>
</tr>
</tbody>
</table>

Manufacturer
SPECTRUM LABORATORY PRODUCTS INC.
14422 S. SAN PEDRO STREET
GARDENA, CA 90248

Commercial Name(s)
C.I. 42500, C.I. Basic Red 9 monohydrochloride; Paramagenta, Basic Red 9, C.I. Basic Red 9 hydrochloride, Basic Parafuchsin, Basic Rubine, Pararosaniline

Synonym
4,4’((4-imino-2,5-cyclohexadien-1-ylidene)methylene)dianiline monohydrochloride; Pararosaniline Chloride; Pararosaniline Hydrochloride; p-Fuchsin

Chemical Name
Benzenamine, 4-((4-aminophenyl)(4-imino-2,5-cyclohexadien-1-ylidene)methyl), monohydrochloride

Chemical Family
Not available.

Chemical Formula
C19-H18-ClN3 or C19-H17-N3.HCl

Supplier
SPECTRUM LABORATORY PRODUCTS INC.
14422 S. SAN PEDRO STREET
GARDENA, CA 90248

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) Basic fuchsin</td>
<td>569-61-9</td>
<td></td>
<td></td>
<td></td>
<td>100</td>
</tr>
</tbody>
</table>

Toxicological Data on Ingredients
Basic fuchsin:
ORAL (LD50):
Acute: 5000 mg/kg [Mouse].

Section 3. Hazards Identification

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

Carcinogenic Effects: Classified 1 (Clear evidence. Reasonably anticipated to be a human carcinogen.) by NTP, + (Proven.) by OSHA. Classified 2B (Possible for human.) by IARC.

Mutagenic Effects: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast.

Teratogenic Effects: Not available.

Developmental Toxicity: Not available.
The substance may be toxic to blood, liver, spleen, thyroid. Repeated or prolonged exposure to the substance can produce target organs damage.

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. Cold water may be used. WARM water MUST be used. Get medical attention.

**Skin Contact**
In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. 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**
Not available.

**Flash Points**
Not available.

**Flammable Limits**
Not available.

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

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

**Explosion Hazards in Presence of Various Substances**
Slightly explosive in presence of open flames and sparks.
Non-explosive in presence of shocks.

**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. When heated to decomposition it emits very toxic fumes of hydrogen chloride and nitrogen oxides.

**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.

Section 7. Handling and Storage

**Precautions**
Keep away from heat. Keep away from sources of ignition. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. 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>Physical state and appearance</th>
<th>Odor</th>
<th>Taste</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid. (crystalline powder.)</td>
<td>Odorless.</td>
<td>Not available.</td>
<td>Green. (Dark.)</td>
</tr>
</tbody>
</table>

**Molecular Weight**
323.83 g/mole

**pH (1% soln/water)**
Not available.

**Boiling Point**
Not available.

**Melting Point**
Decomposition temperature: 268°C (514.4°F) - 270°C.

**Critical Temperature**
Not available.

**Specific Gravity**
Not available.

**Vapor Pressure**
Not applicable.

**Vapor Density**
Not available.

**Volatile**
Not available.

**Odor Threshold**
Not available.

**Water/Oil Dist. Coef.**
The product is more soluble in water; log(oil/water) = -0.2

**Ionicity (in Water)**
Cationic.

**Dispersion Properties**
Not available.

**Solubility**
Very slightly soluble in cold water, diethyl ether. Soluble in alcohol. Solubility in water: 2-3 mg/ml water. Solubility in ethanol: 2-25 mg/ml ethanol.

Section 10. Stability and Reactivity Data

**Stability**
The product is stable.

**Instability Temperature**
Not available.

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

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

**Corrosivity**
Non-corrosive in presence of glass.

**Special Remarks on Reactivity**
Aniline is incompatible with acetic anhydride, chlorosulfonic acid, hexachloroethylene, nitric acid, and nitric acid + nitrogen tetroxide and sulfuric acid, nitrobenzene and glycerin, oleum, ozone, perchloric acid + formaldehyde, perchromates, performic acid, trichloroethylene, anilinium chloride, benzenediazonium-2-carboxylate, boron trichloride, 1-chloro-2,3-epoxypropane, dibenzoyl peroxide, nitromethane, nitrous acid, and tetranitromethane. Destroyed by strong oxidizing agents. Readily reduced to leuco-bases with a variety of reducing agents sensitive to photochemical oxidation.

**Special Remarks on Corrosivity**
Not available.

Continued on Next Page
### Section 11. Toxicological Information

**Routes of Entry**
- Inhalation. Ingestion.

**Toxicity to Animals**
- Acute oral toxicity (LD50): 5000 mg/kg [Mouse].

**Chronic Effects on Humans**
- **CARCINOGENIC EFFECTS:** Classified 1 (Clear evidence. Reasonably anticipated to be a human carcinogen.) by NTP, + (Proven.) by OSHA. Classified 2B (Possible for human.) by IARC.
- **MUTAGENIC EFFECTS:** Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast.
- May cause damage to the following organs: blood, liver, spleen, thyroid.

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

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

**Special Remarks on Chronic Effects on Humans**
- May affect genetic material (mutagenic).
- May cause cancer based on animal test data.

**Special Remarks on other Toxic Effects on Humans**
- Potential Health Effects:
  - Skin: May cause skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material.
  - Eyes: Causes eye irritation. May cause eye injury.
  - Inhalation: May cause respiratory tract irritation.
  - Ingestion: Causes gastrointestinal tract irritation with colicky pain, nausea, vomiting and diarrhea, dryness of the throat. May affect respiration and cause cyanosis.

Exposure from inhalation or ingestion may cause methemoglobinemia and cyanosis. Symptoms of methemoglobinemia may include: grayish/bluish coloring of the skin, which may also appear with out signs of cardiac or pulmonary insufficiency, navy blue to black mucous membranes, dyspnea, shortness of breath, central nervous system effects - headache, dizziness, lethargy, ataxia, vertigo, muscle contraction or spasticity, weakness, faintness, disorientation, confusion, tinnitus, drowsiness, convulsions, tremor, seizures, paresthesias, muscle pain, coma, cardiovascular system effects - heart blocks, and arrhythmias, tachycardia, vascular dystonia, cardiovascular collapse, sluggish pupillary reaction, weakness of vision, photophobia. It may also affect the urinary system (oliguria, renal insufficiency, kidney damage, hemoglobinuria, painful micturition, hematuria, methemoglobinuria), liver, metabolism (weight loss), blood (anemia, chocolate colored blood), spleen, thyroid, pituitary gland.

Chronic Potential Health Effects:
- Ingestion: Prolonged or repeated ingestion may affect the thyroid gland, and pituitary gland.
- Skin: Prolonged or repeated skin contact may cause skin sensitization, an allergic reaction.

### 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 more 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.

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

<table>
<thead>
<tr>
<th>DOT Classification</th>
<th>Not a DOT controlled material (United States).</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identification</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Special Provisions for Transport</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>DOT (Pictograms)</td>
<td>![No DOT Pictogram]</td>
</tr>
</tbody>
</table>

### Section 15. Other Regulatory Information and Pictograms

#### Federal and State Regulations
- California: Listed on National Inventory.
- China: Listed on National Inventory.
- Japan: Listed on National Inventory (ENCS).
- Korea: Not listed on National Inventory (KECI).
- Philippines: Listed on National Inventory (PICCS).
- Australia: Not listed on AICS.
- EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS No. 209-321-2).
- Canada: Listed on Canadian Domestic Substance List (DSL).

#### California Proposition 65
- Warnings:
  - California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Basic fuchsin (listed as C.I. Basic Red 9 monohydrochloride).
  - California prop. 65 (no significant risk level): Basic fuchsin: 0.003 mg/day (value).
  - 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: Basic fuchsin (listed as C.I. Basic Red 9 monohydrochloride).
  - Minnesota: Basic fuchsin
  - Massachusetts RTK: Basic fuchsin
  - New Jersey Right to Know Hazardous Substance: Basic Fuchsin
  - TSCA 8(b) inventory: Basic fuchsin

#### Other Regulations
- EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS No. 209-321-2).
- California: Listed on National Inventory.
- Canada: Listed on National Inventory.
- Japan: Listed on National Inventory (ENCS).
- Korea: Not listed on National Inventory (KECI).
- Philippines: Listed on National Inventory (PICCS).
- Australia: Not listed on AICS.

#### Health Hazard
- WHMIS (Canada) CLASS D-2A: Material causing other toxic effects (VERY TOXIC).
- Health Warning: S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- S53- Avoid exposure - obtain special instructions before use.

#### Flammability
- HMIS (U.S.A.) Health Hazard 2
- National Fire Protection Association (U.S.A.) Health 2

#### Reactivity
- HMIS (U.S.A.) Reactivity 1
- National Fire Protection Association (U.S.A.) Reactivity 0

#### Specific Hazard
- HMIS (U.S.A.) Personal Protection 0
- National Fire Protection Association (U.S.A.) Personal Protection E

### WHMIS (Canada) (Pictograms)
- ![Whistle Pictogram]
Protective Equipment

Gloves.

Lab coat.

Dust respirator. Be sure to use an approved/certified respirator or equivalent.

Splash goggles.

Section 16. Other Information

MSDS Code B3160

References Not available.

Other Special Considerations Major Uses: a dye for textiles (silks, and acrylics), leather, and paper; component of magenta (fuchsin) dye; biological stain

Validated by Sonia Owen on 8/6/2013.

Verified by Sonia Owen.

Printed 8/7/2013.

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.