Material Safety Data Sheet

### Section 1. Chemical Product and Company Identification

<table>
<thead>
<tr>
<th>Name</th>
<th>Catalog Number(s)</th>
<th>CAS#</th>
<th>RTECS</th>
<th>TSCA</th>
<th>CI#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eosin Y, Disodium Salt, C.I. 45380</td>
<td>EO110</td>
<td>17372-87-1</td>
<td>LM5850000</td>
<td>TSCA (8(b) inventory: Eosin Y, Reagent A.C.S.)</td>
<td>45380</td>
</tr>
</tbody>
</table>

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

**Commercial Name(s)**
Acid Red 87; D & C Red No. 22  
Eosin Yellowish

**Synonym**
2',4',5',7'-Tetrabromofluorescein disodium salt

**Chemical Name**
2',4',5',7'-Tetrabromofluorescein disodium salt

**Chemical Family**
Not available.

**Chemical Formula**
C20-H6-Br4-Na2-O5

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

**Emergency Information**
CHEMTREC (24hr) 800-424-9300  
CALL (310) 516-8000

### Section 2. Composition and Information on Ingredients

<table>
<thead>
<tr>
<th>Name</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) Eosin Y, Disodium Salt, C.I. 45380</td>
<td>17372-87-1</td>
<td></td>
<td></td>
<td>100</td>
</tr>
</tbody>
</table>

**Toxicological Data on Ingredients**
Eosin Y, Reagent A.C.S.:  
ORAL (LD50): Acute: 2344 mg/kg [Mouse].

### Section 3. Hazards Identification

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

**Potential Chronic Health Effects**
CARCINOGENIC EFFECTS: Not available.  
MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast.  
TERATOGENIC EFFECTS: Not available.  
DEVELOPMENTAL TOXICITY: Not available.  
Repeated or prolonged exposure is not known to aggravate medical condition.

**Continued on Next Page**
## Section 4. First Aid Measures

<table>
<thead>
<tr>
<th>Eye Contact</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Contact</td>
<td>In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.</td>
</tr>
<tr>
<td>Serious Skin Contact</td>
<td>Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.</td>
</tr>
<tr>
<td>Serious Inhalation</td>
<td>Not available.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>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.</td>
</tr>
<tr>
<td>Serious Ingestion</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

## Section 5. Fire and Explosion Data

<table>
<thead>
<tr>
<th>Flammability of the Product</th>
<th>May be combustible at high temperature.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto-Ignition Temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flash Points</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammable Limits</td>
<td>Not available.</td>
</tr>
<tr>
<td>Products of Combustion</td>
<td>These products are carbon oxides (CO, CO₂), halogenated compounds. Some metallic oxides.</td>
</tr>
<tr>
<td>Fire Fighting Media and Instructions</td>
<td>SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.</td>
</tr>
<tr>
<td>Special Remarks on Fire Hazards</td>
<td>As with most organic solids, fire is possible at elevated temperatures</td>
</tr>
<tr>
<td>Special Remarks on Explosion Hazards</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

## Section 6. Accidental Release Measures

<table>
<thead>
<tr>
<th>Small Spill</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Large Spill</td>
<td>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.</td>
</tr>
</tbody>
</table>
## Section 7. Handling and Storage

### Precautions
Keep locked up. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. 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.

### 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
- **Safety glasses.** Lab coat. Dust respirator. Use a dust respirator if ventilation is inadequate and/or if handling of material produces visible dust clouds. 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>
</table>

<table>
<thead>
<tr>
<th>Molecular Weight</th>
<th>pH (1% soln/water)</th>
<th>Boiling Point</th>
<th>Melting Point</th>
<th>Critical Temperature</th>
<th>Specific Gravity</th>
<th>Vapor Pressure</th>
<th>Vapor Density</th>
<th>Volatility</th>
<th>Odor Threshold</th>
<th>Water/Oil Dist. Coeff.</th>
<th>Ionicity (in Water)</th>
<th>Dispersion Properties</th>
<th>Solubility</th>
</tr>
</thead>
</table>

## Section 10. Stability and Reactivity Data

<table>
<thead>
<tr>
<th>Stability</th>
<th>Instability Temperature</th>
<th>Conditions of Instability</th>
<th>Incompatibility with various substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>The product is stable.</td>
<td>Not available.</td>
<td>Excess heat, incompatible materials</td>
<td>Reactive with oxidizing agents.</td>
</tr>
</tbody>
</table>

Continued on Next Page
# Eosin Y, Disodium Salt, C.I. 45380

<table>
<thead>
<tr>
<th>Corrosivity</th>
<th>Non-corrosive in presence of glass.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special Remarks on Reactivity</td>
<td>Not available.</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): 2344 mg/kg [Mouse]

### Chronic Effects on Humans
- MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast.

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

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

### Special Remarks on Chronic Effects on Humans
- May cause cancer (tumorigenic) based on animal data. No Human data found.
- May affect genetic material.

### Special Remarks on other Toxic Effects on Humans
- Acute Potential Health Effects:
  - Skin: May cause skin irritation.
  - Eyes: Dust may cause eye irritation.
  - Inhalation: Dust may cause respiratory tract irritation.
  - Ingestion: May cause digestive tract irritation.
- Chronic Potential Health Effects:
  - Ingestion: Prolonged or repeated ingestion may affect the liver.

## 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

**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**
TSCA 8(b) inventory: Eosin Y, Disodium Salt, C.I. 45380

**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. 241-409-6).
- **Canada:** Listed on Canadian Domestic Substance List (DSL).
- **China:** Listed on National Inventory.
- **Japan:** Listed on National Inventory (ENCS).
- **Korea:** Listed on National Inventory (KECI).
- **Philippines:** Listed on National Inventory (PICCS).
- **Australia:** Listed on AICS.

**Other Classifications**
- **WHMIS (Canada):** Not controlled under WHMIS (Canada).
- **DSCL (EEC):** This product is not classified according to the EU regulations.

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

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

**WHMIS (Canada) (Pictograms)**

**DSCL (Europe) (Pictograms)**

**TDG (Canada) (Pictograms)**

---

*Continued on Next Page*
Protective Equipment

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

Section 16. Other Information

<table>
<thead>
<tr>
<th>MSDS Code</th>
<th>E3040</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.  
Printed 9/12/2006.

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.