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>CI#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sudan III</td>
<td>SU115</td>
<td>85-86-9</td>
<td>QK4250000</td>
<td>26100</td>
</tr>
</tbody>
</table>

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

Commercial Name(s)
Not available.

Synonym
Aminobenzene Azo-beta-naphthol; 1-((4-Phenylazo)phenyl)azo-2-naphthalenol; 1-((p-Phenylazo)phenyl)azo-2-naphthol; Benzeneazobenzeneazo-beta-naphthol; Brasilazina Oil Scarlet; C.I. 26100; Cerasin Red; Cerasinrot; Cerotinscharlach R; Fast Oil Scarlet III; Fat Red R; Oil Scarlet G; Fat Scarlet LB; Fettponceau G; Oil Red 3G; Oil Red AS; Oil Scarlet G; Organol Red BS; Organol Scarlet; Pyronalrot B; Red ZH; Scarlet B Fat Soluble; Solvent Red 23; Sudan III; Sudan P III; Sudan Red III; Sudan G; Tetrazobenzene-beta-naphthol; Toney Red; D & C Red #17

Chemical Name
2-Naphthalenol, 1-((4-phenylazo)phenyl)azo-

Chemical Family
Not available.

Chemical Formula
C22-H16-N4-O

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) Sudan III</td>
<td>85-86-9</td>
<td></td>
<td></td>
<td>100</td>
<td></td>
</tr>
</tbody>
</table>

Toxicological Data on Ingredients
Not applicable.

Continued on Next Page
Section 3. Hazards Identification

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

Potential Chronic Health Effects

CARCINOGENIC EFFECTS:  3 (Not classifiable for human.) by IARC.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.
Repeated or prolonged exposure is not known to aggravate medical condition.

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 if irritation occurs.

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

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.


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

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small Spill</td>
<td>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.</td>
</tr>
<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

<table>
<thead>
<tr>
<th>Precautions</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not breathe dust. Keep away from incompatibles such as oxidizing agents, reducing agents.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Storage</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Keep container tightly closed. Keep container in a cool, well-ventilated area.</td>
</tr>
</tbody>
</table>

Section 8. Exposure Controls/Personal Protection

<table>
<thead>
<tr>
<th>Engineering Controls</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>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.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Personal Protection</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Use respirator if ventilation is inadequate and dust is visible. Gloves.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Personal Protection in Case of a Large Spill</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>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.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Exposure Limits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Section 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state and appearance</td>
<td>Solid. (Powdered solid.)</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>352.42 g/mole</td>
</tr>
<tr>
<td>pH (1% soln/water)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Melting Point</td>
<td>199°C (390.2°F)</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 available.</td>
</tr>
<tr>
<td>Volatility</td>
<td>Not available.</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available.</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.</td>
</tr>
</tbody>
</table>
## 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 heat, incompatible materials, dust generation</td>
</tr>
<tr>
<td>Incompatibility with various substances</td>
<td>Reactive with oxidizing agents, reducing agents.</td>
</tr>
<tr>
<td>Corrosivity</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

### Special Remarks on Reactivity
- Not available.

### Special Remarks on Corrosivity
- Not available.

### Polymerization
- Will not occur.

## Section 11. Toxicological Information

### Routes of Entry
- Inhalation. Ingestion.

### Toxicity to Animals
- LD50: Not available.
- LC50: Not available.

### Chronic Effects on Humans
- **CARCINOGENIC EFFECTS**: 3 (Not classifiable for human.) by IARC.

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

### Special Remarks on Toxicity to Animals
- Lowest Published Lethal Dose/Conc:
  - LDL [Rabbit] - Route: Intraperitoneal; Dose: 250 mg/kg

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

### 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: Expected low hazard (low toxicity). The toxicological properties of this substance have not been fully investigated.
  - Chronic Potential Health Effects:
    - Ingestion: Prolonged or repeated ingestion of large quantities may affect the liver (hepatitis, hepatocellular necrosis, cirrhosis).

## 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 product itself and its products of degradation are not toxic.

### 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)

![DOT Pictogram]

### Section 15. Other Regulatory Information and Pictograms

#### Federal and State Regulations

- **TSCA 8(b) inventory:** Sudan III.
- **FDA:** Certified Colors (D & C) (21CFR 82C).
- **FDA:** Color Additives Subject (21CFR 74C).
- **FDA:** Color Additives Subject (Drugs) (21CFR 74B).
- **FDA:** Color Additives Subject (Med. Devices) (CFE21 74D).

#### 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. 201-638-4).
- **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.
  - S22- Do not breathe dust.
  - S24/25- Avoid contact with skin and eyes.

#### HMIS (U.S.A.)

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

#### WHMIS (Canada) (Pictograms)

![WHMIS Pictogram]
Sudan III

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>S5090</th>
</tr>
</thead>
<tbody>
<tr>
<td>References</td>
<td>Not available.</td>
</tr>
<tr>
<td>Other Special</td>
<td>Not available.</td>
</tr>
<tr>
<td>Considerations</td>
<td></td>
</tr>
</tbody>
</table>


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.