## Section 1. Chemical Product and Company Identification

<table>
<thead>
<tr>
<th>Common Name/Trade Name</th>
<th>Copper phthalocyanine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer</td>
<td>SPECTRUM CHEMICAL MFG. CORP. 14422 S. SAN PEDRO STREET GARDENA, CA 90248</td>
</tr>
<tr>
<td>Commercial Name(s)</td>
<td>Phthalocyanine Blue Pigment Blue 15</td>
</tr>
<tr>
<td>Synonym</td>
<td>Not available.</td>
</tr>
<tr>
<td>Chemical Name</td>
<td>Not available.</td>
</tr>
<tr>
<td>Chemical Family</td>
<td>Not available.</td>
</tr>
<tr>
<td>Chemical Formula</td>
<td>C32H16CuN8</td>
</tr>
<tr>
<td>Supplier</td>
<td>SPECTRUM CHEMICAL MFG. CORP. 14422 S. SAN PEDRO STREET GARDENA, CA 90248</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Catalog Number(s)</th>
<th>CO135</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS#</td>
<td>147-14-8</td>
</tr>
<tr>
<td>RTECS</td>
<td>GL8510000</td>
</tr>
<tr>
<td>TSCA</td>
<td>TSCA 8(b) inventory: Copper phthalocyanine</td>
</tr>
<tr>
<td>CI#</td>
<td>74160</td>
</tr>
</tbody>
</table>

**Material Safety Data Sheet**

### NFPA

| Health Hazard | 2 |
| Fire Hazard   | 1 |
| Reactivity    | 0 |

**Personal Protective Equipment**

See Section 15.

### Section 2. Composition and Information on Ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Name</td>
</tr>
<tr>
<td>1) Copper phthalocyanine</td>
<td></td>
</tr>
</tbody>
</table>

**Toxicological Data on Ingredients**

- LD50: Not available.
- LC50: Not available.

### Section 3. Hazards Identification

#### Potential Acute Health Effects

Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

#### Potential Chronic Health Effects

- CARCINOGENIC EFFECTS: Not available.
- MUTAGENIC EFFECTS: Not available.
- TERATOGENIC EFFECTS: Not available.
- DEVELOPMENTAL TOXICITY: Not available.

The substance is toxic to kidneys, liver.

Repeated or prolonged exposure to the substance can produce target organs damage.

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

<table>
<thead>
<tr>
<th>Eye Contact</th>
<th>Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Contact</td>
<td>After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek 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>Allow the victim to rest in a well ventilated area. Seek immediate medical attention.</td>
</tr>
<tr>
<td>Serious Inhalation</td>
<td>Not available.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.</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), nitrogen oxides (NO, NO2...). Some metallic oxides.</td>
</tr>
<tr>
<td>Fire Hazards in Presence of Various Substances</td>
<td>Not available.</td>
</tr>
<tr>
<td>Explosion Hazards in Presence of Various Substances</td>
<td>Risks of explosion of the product in presence of mechanical impact: Not available.</td>
</tr>
<tr>
<td></td>
<td>Risks of explosion of the product in presence of static discharge: Not available.</td>
</tr>
<tr>
<td>Fire Fighting Media and Instructions</td>
<td>SMALL FIRE: Use DRY chemical powder.</td>
</tr>
<tr>
<td></td>
<td>LARGE FIRE: Use water spray, fog or foam. Do not use water jet.</td>
</tr>
<tr>
<td>Special Remarks on Fire Hazards</td>
<td>Material in powder form, capable of creating a dust explosion.</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 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 breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes.

Storage
Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

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

Physical state and appearance
Solid. (Microcrystalline solid powder.)

Molecular Weight
576.05 g/mole

pH (1% soln/water)
Not applicable.

Boiling Point
Not available.

Melting Point
Not available.

Critical Temperature
Not available.

Specific Gravity
1.5 (Water = 1)

Vapor Pressure
Not applicable.

Vapor Density
Not available.

Volutility
Not available.

Odor Threshold
Not available.

Water/Oil Dist. Coeff.
Not available.

Ionicity (in Water)
Not available.

Dispersion Properties
Not available.

Solubility
Insoluble in cold water.

Section 10. Stability and Reactivity Data

Stability
The product is stable.

Instability Temperature
Not available.

Conditions of Instability
Not available.

Incompatibility with various substances
Not available.

Continued on Next Page
**Copper phthalocyanine**

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

**Reactivity**
Not available.

**Corrosivity**
Not available.

**Polymerization**
No.

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### Section 11. Toxicological Information

**Routes of Entry**
Eye contact. Inhalation. Ingestion.

**Toxicity to Animals**
LD50: Not available.
LC50: Not available.

**Chronic Effects on Humans**
The substance is toxic to kidneys, liver.

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

**Toxicity to Animals**
Not available.

**Chronic Effects on Humans**
Not available.

**Toxic Effects on Humans**
Not available.

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### 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.

**Special Remarks on the Products of Biodegradation**
Not available.

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### Section 13. Disposal Considerations

**Waste Disposal**

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### Section 14. Transport Information

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

**Identification**
Not applicable.

**Special Provisions for Transport**
Not applicable.

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*Continued on Next Page*
Copper phthalocyanine

Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations
- Pennsylvania RTK: Copper phthalocyanine
- Massachusetts RTK: Copper phthalocyanine
- TSCA 8(b) inventory: Copper phthalocyanine
- SARA 313 toxic chemical notification and release reporting: Copper phthalocyanine
- CERCLA: Hazardous substances: Copper phthalocyanine

Other Regulations

Other Classifications
- WHMIS (Canada): Not controlled under WHMIS (Canada).
- DSCL (EEC): R36/38 - Irritating to eyes and skin.

HMIS (U.S.A.)
- Health Hazard: 2
- Fire Hazard: 1
- Reactivity: 0
- Personal Protection: E

WHMIS (Canada) (Pictograms)

DSCL (Europe) (Pictograms)

TDG (Canada) (Pictograms)

ADR (Europe) (Pictograms)

Protective Equipment
- Gloves.
- Lab coat.

Continued on Next Page
**Section 16. Other Information**

<table>
<thead>
<tr>
<th>MSDS Code</th>
<th>C4660</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.  
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.