Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name: Phloxine B  Product Code: B34064
Manufacturer: EM Science
A Division of EM Industries
P.O. Box 70
480 Democrat Road
Gibbstown, N.J. 08027

Effective Date: 10/29/2001

For More Information Call
856-423-6300 Technical Service
Monday-Friday: 8:00 AM - 5:00 PM

In Case of Emergency Call
800-424-9300 CHEMTREC (USA)
613-996-6666 CANUTEC (Canada)
24 Hours/Day: 7 Days/Week

Synonym: ACID RED 92
Material Uses: Analytical reagent.
Chemical Family: Dye.

Section 2. Composition and Information on Ingredients

Component: PHLOXINE B  CAS #: 18472-87-2  % by Weight: 100

Section 3. Hazards Identification

Physical State and Appearance: Solid. (Powder.)

Emergency Overview: WARNING!
HARMFUL IF SWALLOWED.

Routes of Entry: Inhalation. Ingestion.

Potential Acute Health Effects:
- Eyes: No known acute effects of this product resulting from eye contact.
- Skin: No known acute effects of this product resulting from skin contact.
- Inhalation: No known acute effects of this product resulting from inhalation.
- Ingestion: Hazardous in case of ingestion.

Potential Chronic Health Effects:
- Carcinogenic Effects: This material is not known to cause cancer in animals or humans.
  Additional information See Toxicological Information (section 11)
- Medical Conditions: Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

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. Get medical attention.

Skin Contact: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: If swallowed, 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 immediately.

Section 5. Fire Fighting Measures

Flammability of the Product: May be combustible at high temperature.
### Auto-ignition
Not available.

### 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. Some metallic oxides.

### Fire Hazards in Presence of Various Substances
Not available.

### Explosion Hazards in Presence of Various Substances
Risks of explosion of the product in presence of static discharge: No.

### Fire Fighting Media and Instructions
- **SMALL FIRE:** Use DRY chemical powder.
- **LARGE FIRE:** Use water spray, fog or foam. Do not use water jet.

### Protective Clothing (Fire)
Be sure to use an approved/certified respirator or equivalent.

### Special Remarks on Fire Hazards
Not available.

### Special Remarks on Explosion Hazards
Not available.

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**Section 6. Accidental Release Measures**

**Small Spill and Leak**
Use appropriate tools to put the spilled solid in a convenient waste disposal container.

**Large Spill and Leak**
Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

**Spill Kit Information**
No specific spill kit required for this product.

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**Section 7. Handling and Storage**

**Handling**
Do not ingest. Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing.

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

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**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**

<table>
<thead>
<tr>
<th>Eyes</th>
<th>Safety glasses.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body</td>
<td>Lab coat.</td>
</tr>
<tr>
<td>Respiratory</td>
<td>Wear appropriate respirator when ventilation is inadequate.</td>
</tr>
<tr>
<td>Hands</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Feet</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

**Personal Protection in Case of a Large Spill**
Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Product Name Exposure Limits**
PHLOXINE B Not available.

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**Section 9. Physical and Chemical Properties**

| Odor       | Not available. |
| Color      | Red. Orange.   |
| Physical State and Appearance | Solid. (Powder.) |
| Molecular Weight | 829.64 g/mole |
| Molecular Formula | C2OH2Br4Cl4O5 . 2Na |
| pH         | Not available. |
| Boiling/Condensation Point | Not available. |
| Melting/Freezing Point | Not available. |
| Specific Gravity | Not available. |
### Section 10. Stability and Reactivity

<table>
<thead>
<tr>
<th>Stability and Reactivity</th>
<th>The product is stable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conditions of Instability</td>
<td>Not available.</td>
</tr>
<tr>
<td>Incompatibility with</td>
<td>Not available.</td>
</tr>
<tr>
<td>Various Substances</td>
<td>Not available.</td>
</tr>
<tr>
<td>Rem/Incompatibility Hazardous</td>
<td>These products are halogenated compounds.</td>
</tr>
<tr>
<td>Decomposition Products Hazardous</td>
<td>Will not occur.</td>
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</tbody>
</table>

### Section 11. Toxicological Information

**Phloxine B**

<table>
<thead>
<tr>
<th>RTECS Number:</th>
<th>LM5900000</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Toxicity</strong></td>
<td>Acute oral toxicity (LD50): 310 mg/kg [Mouse].</td>
</tr>
<tr>
<td><strong>Chronic Effects on Humans</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Acute Effects on Humans</strong></td>
<td>Hazardous in case of ingestion.</td>
</tr>
<tr>
<td><strong>Synergetic Products</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td>(Toxicologically)</td>
<td></td>
</tr>
<tr>
<td><strong>Irritancy</strong></td>
<td>Draize Test: Not available.</td>
</tr>
<tr>
<td><strong>Sensitization</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Carcinogenic Effects</strong></td>
<td>This material is not known to cause cancer in animals or humans.</td>
</tr>
<tr>
<td><strong>Toxicity to Reproductive System</strong></td>
<td>Tests on laboratory animals for reproductive effects are cited in Registry of Toxic Effects on Chemical Substances (RTECS).</td>
</tr>
<tr>
<td><strong>Teratogenic Effects</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Mutagenic Effects</strong></td>
<td>Tests on laboratory animals for mutagenic effects are cited in Registry of Toxic Effects of Chemical Substances (RTECS).</td>
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</tbody>
</table>

### Section 12. Ecological Information

<table>
<thead>
<tr>
<th>Ecotoxicity</th>
<th>Not available.</th>
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</thead>
<tbody>
<tr>
<td><strong>BOD5 and COD</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Toxicity of the Products of Biodegradation</strong></td>
<td>The products of degradation are as toxic as the product itself.</td>
</tr>
</tbody>
</table>

### Section 13. Disposal Considerations

<table>
<thead>
<tr>
<th>EPA Waste Number Treatment</th>
<th>Not available.</th>
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</thead>
<tbody>
<tr>
<td>Constant</td>
<td>Always contact a permitted waste disposal (TSD) to assure compliance with all current local, state, and Federal Regulations. Material does not have an EPA Waste Number and is not a listed waste, however consultation with a permitted waste disposal site (TSD) should be accomplished.</td>
</tr>
</tbody>
</table>

### Section 14. Transport Information

<table>
<thead>
<tr>
<th>DOT Classification</th>
<th>Not available.</th>
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<tbody>
<tr>
<td>TDG Classification</td>
<td>Not available.</td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Classification</strong></td>
<td>Not available.</td>
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<tr>
<td>ICAO/IATA</td>
<td>Not available.</td>
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</tbody>
</table>

### Section 15. Regulatory Information

**U.S. Federal Regulations**

TSCA 8(b) inventory: PHLOXINE B
SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: No products were found.
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.
SARA 313 toxic chemical notification and release reporting: No products were found.
Clean Water Act (CWA) 307: No products were found.
Clean Water Act (CWA) 311: No products were found.
Clean air act (CAA) 112 accidental release prevention: No products were found.
Clean air act (CAA) 112 regulated flammable substances: No products were found.
Clean air act (CAA) 112 regulated toxic substances: No products were found.
Class D-1B: Material causing immediate and serious toxic effects (TOXIC).
CEPA DSL: PHLOXINE B

WHMIS (Canada)

International Regulations

EINECS
DSCL (EEC)
International Lists

PHLOXINE B 242-355-6
This product is not classified according to the EU regulations.
Australia (NICNAS): PHLOXINE B

Japan (MITI): PHLOXINE B

Korea (TCCL): PHLOXINE B

Philippines (RA6969): PHLOXINE B
China: No products were found.
No products were found.
California prop. 65: No products were found.

State Regulations

Section 16. Other Information

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

Health 0
Reactivity 0
Fire Hazard Specific Hazard

Changed Since Last Revision +
Notice to Reader

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