**Section 1. Chemical Product and Company Identification**

<table>
<thead>
<tr>
<th>Common Name/Trade Name</th>
<th>Mercuric sulfate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer</td>
<td>SPECTRUM CHEMICAL MFG. CORP.</td>
</tr>
<tr>
<td></td>
<td>14422 S. SAN PEDRO STREET</td>
</tr>
<tr>
<td></td>
<td>GARDENA, CA 90248</td>
</tr>
<tr>
<td>Commercial Name(s)</td>
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</tr>
<tr>
<td>Synonym</td>
<td>Not available.</td>
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<tr>
<td>Chemical Name</td>
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<tr>
<td>Chemical Family</td>
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</tr>
<tr>
<td>Chemical Formula</td>
<td>HgSO₄</td>
</tr>
<tr>
<td>Supplier</td>
<td>SPECTRUM CHEMICAL MFG. CORP.</td>
</tr>
<tr>
<td></td>
<td>14422 S. SAN PEDRO STREET</td>
</tr>
<tr>
<td></td>
<td>GARDENA, CA 90248</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Catalog Number(s)</th>
<th>M1185, M1186</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS#</td>
<td>7783-35-9</td>
</tr>
<tr>
<td>RTECS</td>
<td>OX0500000</td>
</tr>
<tr>
<td>TSCA</td>
<td>TSCA 8(b) inventory: Mercuric sulfate</td>
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<tr>
<td>CI#</td>
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</table>

**IN CASE OF EMERGENCY**

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

**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) Mercuric sulfate</td>
<td>7783-35-9</td>
<td>0.05</td>
<td></td>
<td>0.15</td>
<td>100</td>
</tr>
</tbody>
</table>

**Toxicological Data on Ingredients**

Exposure Limits: 

- ORAL (LD50): Acute: 57 mg/kg [Rat].
- DERMAL (LD50): Acute: 625 mg/kg [Rat].

**Section 3. Hazards Identification**

**Potential Acute Health Effects**

Extremely hazardous in case of ingestion. Very hazardous in case of inhalation. Hazardous in case of skin contact (irritant), of eye contact (irritant). Slightly hazardous in case of skin contact (permeator). Severe over-exposure can result in death.

**Potential Chronic Health Effects**

Slightly hazardous in case of skin contact (permeator). CARCINOGENIC EFFECTS: Classified A5 (Not suspected for human.) by ACGIH. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to kidneys, lungs, the nervous system, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

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

<table>
<thead>
<tr>
<th><strong>Eye Contact</strong></th>
<th>Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Skin Contact</strong></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><strong>Serious Skin Contact</strong></td>
<td>Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>Allow the victim to rest in a well ventilated area. Seek immediate medical attention.</td>
</tr>
<tr>
<td><strong>Serious Inhalation</strong></td>
<td>Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.</td>
</tr>
<tr>
<td><strong>Serious Ingestion</strong></td>
<td>Not available.</td>
</tr>
</tbody>
</table>

### Section 5. Fire and Explosion Data

| **Flammability of the Product**  | Non-flammable.                                                                                 |
| **Auto-Ignition Temperature**    | Not applicable.                                                                                |
| **Flash Points**                 | Not applicable.                                                                                |
| **Flammable Limits**             | Not applicable.                                                                                |
| **Products of Combustion**       | Not available.                                                                                 |
| **Fire Hazards in Presence of Various Substances** | Not applicable.                                                                             |
| **Explosion Hazards in Presence of Various Substances** | Risks of explosion of the product in presence of mechanical impact: Not available. |
|                                  | Risks of explosion of the product in presence of static discharge: Not available.               |
| **Fire Fighting Media and Instructions** | Not applicable.                                                                  |
| **Special Remarks on Fire Hazards** | Not available.                                                                               |
| **Special Remarks on Explosion Hazards** | Not available.                                                                              |

### Section 6. Accidental Release Measures

| **Small Spill**                   | Use appropriate tools to put the spilled solid in a convenient waste disposal container.        |
| **Large Spill**                   | Use a shovel to put the material into a convenient waste disposal container. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities. |

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*Continued on Next Page*
**Mercuric sulfate**

**Section 7. Handling and Storage**

**Precautions**
Keep locked up. 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.

**Storage**
Keep container tightly closed. Keep in a cool, well-ventilated place. Highly toxic or infectious materials should be stored in a separate locked safety storage cabinet or room.

**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.

**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**
TWA: 0.05 CEIL: 0.15 (mg/m³) from ACGIH [1995]
Consult local authorities for acceptable exposure limits.

**Section 9. Physical and Chemical Properties**

**Physical state and appearance**
Solid.

**Molecular Weight**
296.65 g/mole

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

**Boiling Point**
Not available.

**Melting Point**
Decomposes.

**Critical Temperature**
Not available.

**Specific Gravity**
6.47 (Water = 1)

**Vapor Pressure**
Not applicable.

**Vapor Density**
Not applicable.

**Odor Threshold**
Not available.

**Water/Oil Dist. Coeff.**
Not available.

**Ionicity (in Water)**
Not available.

**Dispersion Properties**
Not available.

**Solubility**
Not available.

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

### Special Remarks on Reactivity
Not available.

### Special Remarks on Corrosivity
Not available.

### Polymerization
No.

## Section 11. Toxicological Information

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

### Toxicity to Animals
- Acute oral toxicity (LD50): 57 mg/kg [Rat].
- Acute dermal toxicity (LD50): 625 mg/kg [Rat].

### Chronic Effects on Humans
**CARCINOGENIC EFFECTS:** Classified A5 (Not suspected for human.) by ACGIH.
The substance is toxic to kidneys, lungs, the nervous system, mucous membranes.

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

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

### Special Remarks on Chronic Effects on Humans
Not available.

### Special Remarks on other Toxic Effects on Humans
Not available.

## 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.

## Section 13. Disposal Considerations

### Waste Disposal

## Section 14. Transport Information

### DOT Classification
CLASS 6.1: Poisonous material.

### Identification
: Mercury sulfate  : UN1645  PG: II

### Special Provisions for Transport
Marine Pollutant

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*Continued on Next Page*
Mercuric sulfate

DOT (Pictograms)

Section 15. Other Regulatory Information and Pictograms

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

California Proposition 65 Warnings
- 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: Mercuric sulfate.

Other Regulations

Other Classifications
- WHMIS (Canada)
  - CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC).
  - CLASS D-2B: Material causing other toxic effects (TOXIC).
- DSCL (EEC)
  - R21- Harmful in contact with skin.
  - R25- Toxic if swallowed.
  - R36/38- Irritating to eyes and skin.
- HMIS (U.S.A.)
  - Health Hazard
  - Fire Hazard
  - Reactivity
  - Specific hazard
- WHMIS (Canada) (Pictograms)
- DSCL (Europe) (Pictograms)
- TDG (Canada) (Pictograms)
- ADR (Europe) (Pictograms)
- Protective Equipment
  - Gloves.

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

<table>
<thead>
<tr>
<th>MSDS Code</th>
<th>M3610</th>
</tr>
</thead>
<tbody>
<tr>
<td>References</td>
<td>Not available.</td>
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<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.