Material Safety Data Sheet
Methyl Orange Solution, 0.05% MSDS

Section 1: Chemical Product and Company Identification

<table>
<thead>
<tr>
<th>Product Name: Methyl Orange Solution, 0.05%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catalog Codes: SLM2170</td>
</tr>
<tr>
<td>CAS#: Mixture.</td>
</tr>
<tr>
<td>RTECS: Not applicable.</td>
</tr>
<tr>
<td>TSCA: TSCA 8(b) inventory: Methyl orange; Water</td>
</tr>
<tr>
<td>CI#: Not available.</td>
</tr>
<tr>
<td>Synonym:</td>
</tr>
<tr>
<td>Chemical Name: Not applicable.</td>
</tr>
<tr>
<td>Chemical Formula: Not applicable.</td>
</tr>
</tbody>
</table>

Contact Information:
Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396
US Sales: 1-800-901-7247
International Sales: 1-281-441-4400
Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call:
1-800-424-9300
International CHEMTREC, call: 1-703-527-3887
For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS #</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl orange</td>
<td>547-58-0</td>
<td>0.05</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>100</td>
</tr>
</tbody>
</table>

Toxicological Data on Ingredients:

Section 3: Hazards Identification


Potential Chronic Health Effects:

Section 4: First Aid Measures

Eye Contact: Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used.
Skin Contact: No known effect on skin contact, rinse with water for a few minutes.
Serious Skin Contact: Not available.
Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
Serious Inhalation: Not available.
Ingestion: 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.
Serious Ingestion: Not available.

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: Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7: Handling and Storage

Precautions: No specific safety phrase has been found applicable for this product.
Storage: No specific storage is required. Use shelves or cabinets sturdy enough to bear the weight of the chemicals. Be sure that it is not necessary to strain to reach materials, and that shelves are not overloaded.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

**Personal Protection**: Safety glasses. Lab coat.

**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.

**Exposure Limits**: Not available.

---

### Section 9: Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical state and appearance</strong>:</td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>Odor</strong>:</td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Taste</strong>:</td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Molecular Weight</strong>:</td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Color</strong>:</td>
<td>Clear Orange</td>
</tr>
<tr>
<td><strong>pH (1% soln/water)</strong>:</td>
<td>Neutral</td>
</tr>
<tr>
<td><strong>Boiling Point</strong>:</td>
<td>The lowest known value is 100°C (212°F) (Water).</td>
</tr>
<tr>
<td><strong>Melting Point</strong>:</td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Critical Temperature</strong>:</td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Specific Gravity</strong>:</td>
<td>The only known value is 1 (Water = 1) (Water).</td>
</tr>
<tr>
<td><strong>Vapor Pressure</strong>:</td>
<td>The highest known value is 17.535 mm of Hg (@ 20°C) (Water).</td>
</tr>
<tr>
<td><strong>Vapor Density</strong>:</td>
<td>The highest known value is 0.62 (Air = 1) (Water).</td>
</tr>
<tr>
<td><strong>Vapor Pressure</strong>:</td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Odor Threshold</strong>:</td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Water/Oil Dist. Coeff.</strong>:</td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Ionicity (in Water)</strong>:</td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Dispersion Properties</strong>:</td>
<td>See solubility in water.</td>
</tr>
<tr>
<td><strong>Solubility</strong>:</td>
<td>Easily soluble in cold water, hot water.</td>
</tr>
</tbody>
</table>

---

### Section 10: Stability and Reactivity Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Stability</strong>:</td>
<td>The product is stable.</td>
</tr>
<tr>
<td><strong>Instability Temperature</strong>:</td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Conditions of Instability</strong>:</td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Incompatibility with various substances</strong>:</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Corrosivity</strong>:</td>
<td>Non-corrosive in presence of glass, of stainless steel(304), of stainless steel(316).</td>
</tr>
<tr>
<td><strong>Special Remarks on Reactivity</strong>:</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Special Remarks on Corrosivity</strong>:</td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Polymerization</strong>:</td>
<td>No.</td>
</tr>
</tbody>
</table>
### Section 11: Toxicological Information

**Routes of Entry:** Not available.

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

**Chronic Effects on Humans:** Not available.

**Other Toxic Effects on Humans:** Non-corrosive for skin. Non-sensitizer for skin.

**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:** Not available.

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

---

### Section 13: Disposal Considerations

**Waste Disposal:**

---

### Section 14: Transport Information

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

**Identification:** Not applicable.

**Special Provisions for Transport:** Not applicable.

---

### Section 15: Other Regulatory Information

**Federal and State Regulations:** TSCA 8(b) inventory: Methyl orange; Water

**Other Regulations:** Not available. or of its ingredients

**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.):**
- **Health Hazard:** 0
- **Fire Hazard:** 0
Reactivity: 0

Personal Protection: a

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

Health: 0

Flammability: 0

Reactivity: 0

Specific hazard:

Protective Equipment:
Not applicable. Lab coat. Not applicable. Safety glasses.

---

**Section 16: Other Information**

**References:** Not available.

**Other Special Considerations:** Not available.

**Created:** 10/10/2005 10:46 AM

**Last Updated:** 05/21/2013 12:00 PM

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall ScienceLab.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if ScienceLab.com has been advised of the possibility of such damages.