SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier
Oil of Thermometer (Kerosene)

Product Use
Spirit Tube Thermometer

Manufacturer's Name
Changshu Hupu Glass Instruments Co., Ltd.

Supplier's Name
Weems & Plath

Street Address
Hupu, Xingang Town

Street Address
214 Eastern Avenue

City
Changshu City

City
Annapolis

Province
Jiangsu

Province
Maryland

Postal Code
215512

Postal Code
21403

Emergency Telephone
86-512-52631257

Emergency Telephone
410-263-6700

Date MSDS Prepared
Jun. 21, 2019

MSDS Prepared By
Fengzhug

Phone Number
86-512-52631257

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients (specific) % CAS Number LD₅₀ of Ingredient (specify species and route) LC₅₀ of Ingredient (specify species)

Kerosene 100% 8008-20-5

SECTION 3 — HAZARDS IDENTIFICATION

Route of Entry ☑ Skin Contact ☑ Skin Absorption ☑ Eye Contact ☑ Inhalation ☑ Ingestion

[Emergency Overview]
Flammable. Irritating to skin. May cause irritation to eyes and respiratory system. May cause lung damage if swallowed.

[WHMIS Symbols]

[Potential Health Effects]

SECTION 4 — FIRST AID MEASURES

Skin Contact
In case of contact, immediately wash skin with soap and copious amounts of water. If irritation persists, call a physician.

Eye Contact
In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. If irritation persists, call a physician.

Inhalation
If inhaled, remove to fresh air. If breathing is difficult, give oxygen.

Ingestion
If victim is conscious, wash mouth out with water. Do not induce vomiting. Get medical aid immediately.

SAMPLE FORMAT PROVIDED BY THE WORKERS’ COMPENSATION BOARD OF BRITISH COLUMBIA

57M6 (6/99) Please continue on reverse side

[ Optional, not required under WHMIS ]
**SECTION 5 — FIRE FIGHTING MEASURES**

<table>
<thead>
<tr>
<th>Flammable</th>
<th>If yes, under which conditions?</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Yes</td>
<td>☐ No</td>
</tr>
<tr>
<td>Vapor may travel considerable distance to source of ignition and flash back. Container explosion may occur under fire conditions.</td>
<td></td>
</tr>
</tbody>
</table>

**Means of Extinction**

Suitable: dry chemical, water spray, carbon dioxide or appropriate foam.

<table>
<thead>
<tr>
<th>Flashpoint (°C) and Method</th>
<th>Upper Flammable Limit (% by volume)</th>
<th>Lower Flammable Limit (% by volume)</th>
</tr>
</thead>
<tbody>
<tr>
<td>69°C (closed cup)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Autoignition Temperature (°C)**

<table>
<thead>
<tr>
<th>Explosion Data — Sensitivity to Impact</th>
<th>Explosion Data — Sensitivity to Static Discharge</th>
</tr>
</thead>
</table>

**Hazardous Combustion Products**

Emit toxic fumes under fire conditions.

[NFPA]

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**SECTION 6 — ACCIDENTAL RELEASE MEASURES**

**Leak and Spill Procedures**

Evacuate area. Shut off all sources of ignition. Use non-sparking tools. Mix with inert material (e.g. dry sand, vermiculite) and transfer to a dry, clean, lidded container for disposal. Scoop up with a non-sparking tool and then place into a suitable container for disposal. Remove all sources of ignition. Provide ventilation.

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**SECTION 7 — HANDLING AND STORAGE**

**Handling Procedures and Equipment**

Do not contact with eyes and skin. Do not inhale. Keep container tightly closed. Do not expose empty containers to heat, sparks, or open flames. Use only with adequate ventilation. Electrostatic charges may be generated during pumping. Ensure electrical continuity by bonding all equipment. Keep away from heat, sparks and flames.

Incompatibilities: strong oxidizing agents, strong bases, strong acids, amines, combustible materials and foods. No smoking at working site. Use non-sparking tools.

**Storage Requirements**

Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Incompatibilities: strong oxidizing agents, strong bases, strong acids, amines, combustible materials and foods.

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**SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION**

**Exposure Limits**

☐ ACGIH TLV  ☐ OSHA PEL  ☐ Other (specify)

Specific Engineering Controls (such as ventilation, enclosed process)

Safety shower and eye bath. Mechanical exhaust required.

**Personal Protective Equipment**

☐ Gloves  ☐ Respirator  ☐ Eye  ☐ Footwear  ☐ Clothing  ☐ Other

If checked, please specify type

Government approved respirator, chemical safety goggles, anti-electrostatic clothing, compatible chemical-resistant gloves.

[Optional, not required under WHMIS]
**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Odour and Appearance</th>
<th>Odour Threshold (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dark red oily liquid</td>
<td>Weak penetrating odor</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Specific Gravity</th>
<th>Vapour Density (air = 1)</th>
<th>Vapour Pressure (mmHg)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Evaporation Rate</th>
<th>Boiling Point (°C)</th>
<th>Freezing Point (°C)</th>
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<tr>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>pH</th>
<th>Coefficient of Water/Oil Distribution</th>
<th>[Solubility in Water]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hardly soluble in water</td>
<td></td>
</tr>
</tbody>
</table>

**SECTION 10 — STABILITY AND REACTIVITY**

Chemical Stability

- Yes
- No

If no, under which conditions?

- Stable under normal temperatures and pressures.

Incompatibility with Other Substances

- Yes
- No

If yes, which ones?

- Strong oxidizing agents, strong bases, strong acids, amines, combustible materials and foods.

Reactivity, and under what conditions?

- Ignition sources, excess heat.

**Hazardous Decomposition Products**

- Carbon monoxide, carbon dioxide

**SECTION 11 — TOXICOLOGICAL INFORMATION**

**Effects of Acute Exposure**

**Effects of Chronic Exposure**

**Irritancy of Product**

- Rabbit Oral LD50 2835 mg/kg

**Skin Sensitization**

- Rabbit skin - 500mg severe

**Respiratory Sensitization**

**Carcinogenicity**

- IARC
- ACGIH

- A3 - Confirmed animal carcinogen with unknown relevance to humans.

**Reproductive Toxicity**

- Teratogenicity

**Embryotoxicity**

- Mutagenicity

**Name of Synergistic Products/Effects**

[ Optional, not required under WHMIS ]
Product Identifier: Oil of Thermometer (Kerosene)

SECTION 12 — ECOLOGICAL INFORMATION

[Aquatic Toxicity]

No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Waste Disposal
Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

SECTION 14 — TRANSPORT INFORMATION

Special Shipping Information
Proper Shipping Name: Kerosene

<table>
<thead>
<tr>
<th>PIN</th>
<th>TDG</th>
<th>[DOT]</th>
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<tr>
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</tbody>
</table>

[IMO]
Hazard Class: 3, UN Number: 1223, Packaging Group: III, EmS: F-E, S-E

[ICAO]

SECTION 15 — REGULATORY INFORMATION

[WHMIS Classification]  [OSHA]

[SERA]  [TSCA]

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

SECTION 16 — OTHER INFORMATION

The MSDS is prepared in accordance with ISO 11014-1:1994. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. 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 way, shall we 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 from using the above information.