

MATERIAL SAFETY DATA SHEET — 16 Sections

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier Oil of Thermometer (Kerosene)		[WHMIS Classification]	
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	Province Jiangsu	City Annapolis	Province Maryland
Postal Code 215512	Emergency Telephone 86-512-52631257	Postal Code 21403	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 (<i>specific</i>)	%	CAS Number	LD ₅₀ of Ingredient (<i>specify species and route</i>)	LC ₅₀ of Ingredient (<i>specify species</i>)
Kerosene	100%	8008-20-5		

SECTION 3 — HAZARDS IDENTIFICATION

Route of Entry <input checked="" type="checkbox"/> Skin Contact <input type="checkbox"/> Skin Absorption <input checked="" type="checkbox"/> Eye Contact <input checked="" type="checkbox"/> Inhalation <input checked="" type="checkbox"/> 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

SECTION 5 – FIRE FIGHTING MEASURES

Flammable <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, under which conditions? Vapor may travel considerable distance to source of ignition and flash back. Container explosion may occur under fire conditions.	
Means of Extinction Suitable: dry chemical, water spray, carbon dioxide or appropriate foam.		
Flashpoint (°C) and Method 69°C (closed cup)	Upper Flammable Limit (% by volume)	Lower Flammable Limit (% by volume)
Autoignition Temperature (°C)	Explosion Data – Sensitivity to Impact	Explosion Data – Sensitivity to Static Discharge
Hazardous Combustion Products Emit toxic fumes under fire conditions.		
[NFPA]		

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.

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.

SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits <input type="checkbox"/> ACGIH TLV <input type="checkbox"/> OSHA PEL <input type="checkbox"/> Other (specify)
Specific Engineering Controls (such as ventilation, enclosed process) Safety shower and eye bath. Mechanical exhaust required.
Personal Protective Equipment <input checked="" type="checkbox"/> Gloves <input checked="" type="checkbox"/> Respirator <input checked="" type="checkbox"/> Eye <input type="checkbox"/> Footwear <input checked="" type="checkbox"/> Clothing <input type="checkbox"/> Other
If checked, please specify type Government approved respirator, chemical safety goggles, anti-electrostatic clothing, compatible chemical-resistant gloves.

Product Identifier Oil of Thermometer (Kerosene)

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State Dark red oily liquid	Odour and Appearance Weak penetrating odor	Odour Threshold (ppm)
Specific Gravity	Vapour Density (air = 1)	Vapour Pressure (mmHg)
Evaporation Rate	Boiling Point (°C)	Freezing Point (°C)
pH	Coefficient of Water/Oil Distribution	[Solubility in Water] Hardly soluble in water

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, under which conditions? Stable under normal temperatures and pressures.
Incompatibility with Other Substances <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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	Carcinogenicity – ACGIH A3 - Confirmed animal carcinogen with unknown relevance to humans.
Reproductive Toxicity	Teratogenicity
Embryotoxicity	Mutagenicity
Name of Synergistic Products/Effects	

SECTION 12 – ECOLOGICAL INFORMATION

[Aquatic Toxicity]
No data available.

SECTION 13 – DISPOSAL CONSIDERATIONS

<p>Waste Disposal</p> <p>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.</p> <p>Observe all federal, state, and local environmental regulations.</p>
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SECTION 14 – TRANSPORT INFORMATION

<p>Special Shipping Information</p> <p>Proper Shipping Name: Kerosene</p>		PIN
TDG	[DOT]	
[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]
<p><i>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.</i></p>	

SECTION 16 – OTHER INFORMATION

<p>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.</p>