

**Kerosene Spirit Filled Glass Thermometer
Safety Data Sheet**

Effective date: April 1, 2016

According to 29 CFR 1910:1200 and GHS Rev. 3

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SECTION 1: Identification of the substance/mixture and of the Manufacturer

Chemical Name: Kerosene (CAS No: 08008-20-6)
Manufacturer Product Name: Kerosene Spirit Filled Glass Thermometer

Recommended uses of the chemical/product: Kerosene dyed with a red aniline dye is the thermometric fluid in a kerosene spirit filled glass thermometer. The dyed kerosene expands or contracts with change in temperature. The thermometer will have approximately 2 cc of kerosene.

Manufacturer Details: Miller-Weber of Texas
6952 Lawndale Street
Houston, TX 77023
713-926-2623 Fax: 713-926-7736

Emergency Telephone Number: Chem-Tel, Inc. (Contract Number: MIS0003159)
1-800-255-3924

SECTION 2: Hazards Identification

The amount of kerosene in a single thermometer is approximately two cc. This section identifies the hazards of the substance, without regard of amount of kerosene present in the finished product.

Hazard Classification of the chemical (GHS-US Hazard Pictograms):



GHS08



GHS07



GHS09

Signal word (GHS-US): Danger

Hazard statements (GHS-US): H227 – Combustible liquid.
H304 – May be fatal if swallowed and enters airways
H315 – Causes skin irritation
H411 – Toxic to aquatic life with long lasting effects.

Precautionary statements (GHS-US): P210 – Keep away from heat, sparks, open flames, hot surfaces. – No smoking
P264 – Wash skin, hands thoroughly after handling
P273 – Avoid release to the environment
P280 – Wear eye protection, protective clothing, protective gloves, face mask
P301+P310 – IF SWALLOWED: immediately call a POISON CENTER or doctor/physician
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P331 – If swallowed, do NOT induce vomiting
P332+P313 – If skin irritation occurs: Get medical advice/attention
P362 – Take off contaminated clothing and wash before reuse.
P370+P378 – In case of fire: Use carbon dioxide (CO₂), powder, alcohol-resistant foam for extinction
P391 – Collect spillage.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up
P501 – Dispose of contents/container to comply with local, state and federal regulations

NFPA/HMIS Ratings (0-4) (Non-GHS): Health: 2, Flammability: 2, Reactivity: 0, PPG: See Section 8

SECTION 3: Composition/Information on Ingredients

Name	Product Identifier	%	GHS-US Classification
Kerosene	CAS No. 08008-20-6	100	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

See Section 16 for full text of H-phrases

SECTION 4: First aid measures

The first aid measures described in this section are for exposure to kerosene, regardless of the quantity of the kerosene involved in the exposure. The first aid measures below come from the Safety Data Sheets of our bulk kerosene suppliers.

Description of first aid measures

General: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

After inhalation: Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

After skin contact: Wash off with soap and plenty of water. Consult a physician.

After eye contact: Flush eyes with water as a precaution.

After swallowing (ingestion): Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in Section 2 and/or in section 11.

Indication of any immediate medical attention and special treatment needed: No data available.

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SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing agents: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: None identified, but avoid heavy water stream.

Special hazards arising from the substance or mixture: Nature of decomposition products not known.

Advice to firefighters: Wear self-contained breathing apparatus for firefighting, if necessary.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

General Measures: If thermometer breaks, wipe up liquid with disposable wiping cloth. Allow to dry under a fume hood and discard or discard into spark and explosion proof waste receptacle.

Protective Equipment: See Section 8.

Emergency procedures: Keep upwind. Keep away from engines. No smoking. No flames or sparks. Wash contaminated clothing.

Environmental precautions Prevent leakage or spillage into drains and sewers. Discharge into the environment must be avoided.

Methods and material for containment and cleaning up Carefully clean up broken glass. Wipe up liquid kerosene spirit immediately after putting on protective equipment.

Reference to other sections For disposal see section 13.

SECTION 7: Handling and storage

Precautions for safe handling

Handle and store thermometer in such a way to prevent breakage. If thermometer breaks, kerosene will be released. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in case of breakage. Supply spark and explosion proof waste receptacle, as necessary.

Hygiene measures

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Store thermometer in such a way to prevent breakage. Store away from direct sunlight, sources of intense heat, or where freezing is possible. Store away from materials incompatible with kerosene (see Section 10 of this SDS). Store in area that will secure kerosene if thermometer is broken in storage. Inspect all incoming containers with thermometers carefully for breakage. If breakage is suspected, use proper protective equipment (see Section 8 of this SDS) and containment. Store and handle in well ventilated areas.

SECTION 8: Exposure controls/personal protection

Control Parameters:

Kerosene (Kerosine) CAS No. 08008-20-6			Remarks
USA ACGIH	ACGIH TLV	200 mg/m3	Central Nervous System impairment; Upper Respiratory Tract irritation; Skin irritation; Application restricted to conditions in which there are negligible aerosol exposures; Confirmed animal carcinogen with unknown relevance to humans; Danger of cutaneous absorption varies.
USA NIOSH	NIOSH TWA	100 mg/m3	A refined petroleum solvent (predominantly C9-C16), which typically is 25% normal paraffins, 11% branched paraffins, 30% monocycloparaffins, 12% dicycloparaffins, 1% tricycloparaffins, 16% mononuclear aromatics & 5% dinuclear aromatics.

Appropriate Engineering controls

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

Personal Protective Equipment (if thermometer breaks)

If thermometer breaks, avoid all unnecessary exposure. Gloves. Protective clothing. Safety glasses or goggles. Respiratory protection if concentration in air is above the exposure limits.



Hand Protection: Handle with gloves. Nitrile rubber give good protection. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye Protection: Safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US). Use a face shield if misting or large quantities of liquid splashing is expected.

Respiratory Protection: Where risk assessment shows air-purifying respirations are appropriate use a full-face respirator with multi-purpose combination (US) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US).

Skin and Body Protection: Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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SECTION 9: Physical and chemical properties

Appearance (physical state, color)	Red dyed liquid	Explosion Limit (upper/lower)	5% (V)/0.7% (V)
Odor	No data available	Vapor pressure	0.31 hPa at 20 °C
Odor threshold	No data available	Vapor density	No data available
pH value	No data available	Relative density	0.800 g/cm ³ at 15 °C
Melting/Freezing point	No data available	Solubilities (at 25 °C)	No data available
Boiling point/ Boiling range	175-325 °C	Partition coefficient (n-octanol/water)	No data available
Flash point	70 °C	Auto/Self-ignition temperature	No data available
Relative Evaporation rate (butylacetate=1)	No data available	Decomposition temperature	No data available
Flammability (solid, gaseous)	No data available	Viscosity	No data available
Upper/Lower flammability limits	5% (V)/ 0.7% (V)	Surface tension	32 mN/m at 20 °C

SECTION 10: Stability and reactivity

Reactivity: No data available.

Chemical stability: Stable under normal conditions of use. Stable under recommended storage conditions.

Possibility of hazardous reactions: No data available.

Conditions to avoid: Intact thermometer should not be exposed to hydrofluoric acid. Avoid Excessive heat, sources of ignition, direct sunlight and extremely high or low temperatures. If broken, avoid materials incompatible with kerosene.

Incompatible materials: Strong oxidizing agents, strong bases, strong acids, amines.

Hazardous decomposition products: Other decomposition products- no data available. In the event of fire: see Section 5.

SECTION 11: Toxicological information

Acute toxicity: Not classified

Kerosene (Kerosine) CAS No. 08008-20-6	
LD50 oral rat	2835 mg/kg Remarks: Behavioral: Muscle weakness. Lungs, Thorax, or Respiration: Respiratory stimulation. Endocrine: Hypoglycemia.
dermal rabbit	Irritating to skin – 24 h (Draize Test). No other data available.
LD50 inhalation rat (mg/l)	No data available.

Skin corrosion/irritation: Irritating to skin.

Serious eye damage/irritation: No data available.

Respiratory or skin sensitization: No data available.

Germ cell mutagenicity: No data available.

Carcinogenicity: No component of this products present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, NTP or OSHA.

Reproductive toxicity: No data available.

Specific target organ toxicity- (single exposure): Inhalation – Respiratory system.

Specific target organ toxicity- (repeated exposure): No data available.

Aspiration hazard: May be fatal if swallowed and enters airways.

Additional Information: RTECS: OA5500000. The supplier bulk chemical SDS explains to the best of their knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

See Section 4 of the SDS for most important symptoms and effects, both acute and delayed for inhalation, skin contact, eye contact, ingestion and chronic symptoms of kerosene exposure.

SECTION 12: Ecological information

Exotoxicity: No data available.

Persistence and degradability: No data available.

Bioaccumulative: No data available.

Mobility in soil (Kerosene CAS No. 08008-20-6):

Surface tension: 32 mN/m (20 °C)

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

Waste disposal recommendations:

In bulk quantities, this combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose this material. Contaminated packaging should be disposed of as unused product.

SECTION 14: Transport information

The shipping of Kerosene spirit filled glass thermometers is not regulated. Thermometers should be packaged in such a way to avoid breakage. They should also be packed so that if breakage occurs, kerosene does not leak from the container. The information below is for bulk kerosene shipments.

Transport document description: UN1223

UN-Number (DOT): UN1223

DOT proper shipping name: Kerosene (Kerosine)

Transport hazard class(es):

Hazard Classes (DOT): 3- Class 3 – Flammable and combustible liquid 49 CFR 173.120

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Hazard labels (DOT): 3 – Flammable liquid



Packing group (DOT): III

SECTION 15: Regulatory information

United States (USA)

SARA Section 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA Section 311/312 (Specific toxic chemical listings): Immediate (acute) health hazard; Fire hazard

SARA Section 313 (Specific toxic chemical listings): This material does not contain any chemical components with known CAS numbers that exceed the threshold (DeMinimis) reporting levels established by SARA Title III, Section 313.

Proposition 65 (California): This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Massachusetts, Pennsylvania and New Jersey Right to Know Components: Kerosene CAS No. 08008-20-6 Revision Date: 2007-03-01

SECTION 16: Other information

Full text of H-phrases: see section 3

Asp. Tox. 1	Aspiration hazard, Category 1
Flam. Liq. 4	Flammable liquids, Category 4
Aquatic Chronic 2	Chronic Aquatic Toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H227	Combustible liquid.
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H411	Toxic to aquatic life with long lasting effects.

Other Information

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No previous publication of SDS by Miller-Weber of Texas