

10782.

The attached SDS covers all items listed below:

SB14147 THRU SB14150

SB15197 AND SB15198

KI03077

KI02218

KI03756

KI03751

KI03861TD

KI03862TD

KI03928 C

SB15197 A

KI02941

KI03121

KI03669CZ

KI04135 A

KI04160

KI04161

KI04346 B

KI04498

KI04500

SB22636

KI03785FA

KI03807HA

KI03809DD

KI03881TB

KI04111

KI04112

SB15198 X

SAFETY DATA SHEET

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Revision Date: 11/08/2016

SDS Number: RF-SDS379

Version: 1.0

Thermometer

29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Thermometer

Recommended use of the chemical and restrictions on use

Identified use : Thermometer

Details of the supplier of the safety data sheet

C & A Scientific Co., Inc.
7241 Gabe Court,
Manassa, VA 20109-2434
United States of America

Emergency telephone number

1-800-222-1222(American association of poison control centers)

Product Information

1-703-330-1413

E-mail:

karla@cnascientific.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

This product is considered an article as defined by US OSHA Hazard Communication Standard (29 CFR 1910.1200, OSHA HazCom 2012) and it is not within the scope of the 29 CFR 1910.1200, as defined in this standard: "Article" means a manufactured item other than a fluid or particle, therefore this SDS is not required but provided as a courtesy in response to customer request and it contains valuable information critical to the safe handling and proper use of the product.

This product is considered safe under normal use conditions, however, this product is designed for thermometer application, it might cause hazards if this product is not used as directed or being abused. Please follow the recommendation from manufacturer or safety instruction on the label of products.

The following hazards assessment is carried out based on the internal component of thermometer under the worst-case scenario that it may be broken and cause exposure to users.

Flammable liquids : Category 3

Skin irritation : Category 2

Specific target organ systemic toxicity - single exposure : Category 3 (Central nervous system)

Aspiration hazard : Category 1

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GHS label elements

Hazard pictograms

:



Signal Word : Danger

Hazard Statements : Flammable liquid and vapor.
May be fatal if swallowed and enters airways.
Causes skin irritation.
May cause drowsiness or dizziness.

Precautionary Statements : **Prevention:**
Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ ventilating/ lighting/ equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
Wash skin thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/ eye protection/ face protection.
Response:
IF SWALLOWED: Immediately call a POISON CENTER/doctor.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
Do NOT induce vomiting.
If skin irritation occurs: Get medical advice/ attention.
Take off contaminated clothing and wash before reuse.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Storage:
Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.
Disposal:
Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

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Hazardous components

Chemical name	CAS-No.	Classification	Concentration (%)
KEROSENE	8008-20-6	Flam. Liq. 3; H226 Skin Irrit. 2; H315 STOT SE 3; H336 Asp. Tox. 1; H304	100.00

SECTION 4. FIRST AID MEASURES

- General advice

: Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Symptoms of poisoning may appear several hours later.
Do not leave the victim unattended.
- If inhaled

: Move to fresh air.
Call a physician or poison control center immediately.
Keep patient warm and at rest.
If unconscious place in recovery position and seek medical advice.
- In case of skin contact

: Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.
- In case of eye contact

: Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.
- If swallowed

: If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended. If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed

: May be fatal if swallowed and enters airways.
Causes skin irritation.
May cause drowsiness or dizziness.

SECTION 5. FIREFIGHTING MEASURES

Thermometer

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Water spray
Foam
Alcohol-resistant foam
Carbon dioxide (CO2)
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Do not allow run-off from fire fighting to enter drains or water courses.
- Specific extinguishing methods : Product is compatible with standard fire-fighting agents.
- Further information : Avoid spreading burning material with water used for cooling purposes.
Do not use a solid water stream as it may scatter and spread fire.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.
Remove all sources of ignition.
Use personal protective equipment.
Ensure adequate ventilation.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
Only persons properly qualified to respond to an emergency involving hazardous substances should respond to a spill involving chemicals.
- Environmental precautions : Prevent spreading over a wide area (e.g. by containment or oil barriers).
Prevent product from entering drains.

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Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Sweep up spilled material and absorbent with non-sparking tools.
Decontaminate the area of the spill with a soap solution.

Other information : Comply with all applicable federal, state, and local regulations.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.
Do not breathe vapours/dust.
Take precautionary measures against static discharges.
Avoid contact with skin and eyes.
Smoking, eating and drinking should be prohibited in the application area.
General industrial hygiene practices when using this product.
For personal protection see section 8.
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Store in a dry and well-ventilated place.
Observe label precautions.
No smoking.
Electrical installations / working materials must comply with the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
KEROSENE	8008-20-6	TWA	200 mg/m3 Non-aerosol (as total hydrocarbon vapor)	ACGIH
		REL	100 mg/m3	NIOSH/GUID E

Engineering measures : Provide sufficient mechanical (general and/or local exhaust)

Thermometer

ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

- Respiratory protection : Make sure adequate ventilation.
Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.
- Hand protection : Wear protective gloves if necessary.
- Eye protection : Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.
Safety glasses
- Skin and body protection : Wear resistant gloves such as:
Neoprene
Nitrile rubber
Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse.
Discard gloves that show tears, pinholes, or signs of wear.
- Hygiene measures : Avoid contact with skin, eyes and clothing.
Wash hands before breaks and immediately after handling the product.
Keep good industrial hygiene practices when using this product.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : Dark red liquid
- Physical state : Manufactured article contains liquid
- Odour : Characteristic
- Melting Point : 30 - 86°C
- Boiling Point : 180 - 356 °C
- Flash point : 120.00 - 190.00 °F / 48.89 - 87.78 °C
- Evaporation rate : 0.04
n-Butyl Acetate
- Upper explosion limit : 5 %(V)

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Lower explosion limit	: 0.7 %(V)
Vapour pressure	: 1 - 10 mmHg (37.78 °C)
Relative vapour density	: 4.5AIR=1
Relative density	: 0.825 (60.00 °F)
Density	: 0.825 g/cm3 (60 °F)
Solubility(ies)	
Water solubility	: negligible (Liquid is soluble in other petroleum solvents)
Molecular weight	: 185 g/mol

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: Stable under recommended storage conditions.
Possibility of hazardous reactions	: Product will not undergo hazardous polymerization.Vapours may form explosive mixture with air.Hazardous decomposition: Toxic fumes of: carbon monoxide carbon dioxide nitrogen oxides
Conditions to avoid	: Contact with heat, sparks, open flames or other ignition sources.
Incompatible materials	: Strong oxidizing agents

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	: Inhalation Skin absorption Skin contact Eye Contact Ingestion
Acute toxicity	
Not classified based on available information.	
Acute oral toxicity	: LD 50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 420
Acute inhalation toxicity	: LC 50 (Rat): > 5.28 mg/l Exposure time: 4 h Test atmosphere: vapour Method: OECD Test Guideline 403

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Assessment: Not classified as acutely toxic by inhalation under GHS.

Acute dermal toxicity : LD 50 (Rabbit): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: Not classified as acutely toxic by dermal absorption under GHS.

Skin corrosion/irritation

Causes skin irritation.

Remarks: May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Not classified based on available information.

Result: Slightly irritating to eyes

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes serious eye irritation.

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

May be fatal if swallowed and enters airways.

Carcinogenicity:

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

OSHA No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicology Assessment

Acute aquatic toxicity : Not classified based on available information.

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Chronic aquatic toxicity	: Not classified based on available information.
Toxicity to fish	: LL50 (Oncorhynchus mykiss (rainbow trout)): 2 - 5 mg/l Exposure time: 96 h Test Type: semi-static test Test substance: WAF Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EL50 (Water flea (Daphnia magna)): 1.4 mg/l Exposure time: 48 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 202
Toxicity to algae	: EL50 (Pseudokirchneriella subcapitata (green algae)): 1 - 3 mg/l Exposure time: 72 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: (Water flea (Daphnia magna)): 0.89 mg/l Exposure time: 21 d End point: Reproduction Test Test Type: semi-static test Test substance: WAF Method: OECD Test Guideline 211
Persistence and degradability	
Biodegradability	: Biodegradation: 58.6 % Exposure time: 28 d Method: OECD Test Guideline 301F
Bioaccumulative potential	
No data available	
Mobility in soil	
No data available	
Other adverse effects	
No data available	

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

General advice	: Contaminated absorbent may be deposited in a landfill in accordance with local, state and federal regulations. Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container.
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Dispose in safe manner in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Handle empty containers with care because residual vapors are flammable.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
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U.S. DOT - ROAD

UN	1223	Kerosene	3	III	
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U.S. DOT - RAIL

UN	1223	Kerosene	3	III	
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U.S. DOT - INLAND WATERWAYS

UN	1223	Kerosene	3	III	
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INTERNATIONAL MARITIME DANGEROUS GOODS

UN	1223	KEROSENE	3	III	
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN	1223	Kerosene	3	III	
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN	1223	Kerosene	3	III	
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Marine pollutant	no
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Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15. REGULATORY INFORMATION

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- SARA 311/312 Hazards** : Fire Hazard
- SARA 313 Component(s)****SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
- Pennsylvania Right To Know**
Listed.
- New Jersey Right To Know**
Listed.
- California Prop. 65** This product does not contain a chemical known to the State of California to cause cancer.
- The components of this product are reported in the following inventories:**
- TSCA** : On TSCA Inventory
- DSL** : All components of this product are on the Canadian DSL
- AUSTR** : On the inventory, or in compliance with the inventory
- ENCS** : On the inventory, or in compliance with the inventory
- KECL** : On the inventory, or in compliance with the inventory
- PHIL** : On the inventory, or in compliance with the inventory
- IECSC** : On the inventory, or in compliance with the inventory

Inventories
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

SECTION 16. OTHER INFORMATION

Further information
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- Full text of H-Statements referred to under section 3.**
- H226 Flammable liquid and vapor.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H336 May cause drowsiness or dizziness.

Disclaimer

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists
BEI : Biological Exposure Index
CAS : Chemical Abstracts Service (Division of the American Chemical Society).
CMR : Carcinogenic, Mutagenic or Toxic for Reproduction
FG : Food grade
GHS : Globally Harmonized System of Classification and Labeling of Chemicals.
H-statement : Hazard Statement
IATA : International Air Transport Association.
IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO : International Civil Aviation Organization
ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"
IMDG : International Maritime Code for Dangerous Goods
ISO : International Organization for Standardization
logPow : octanol-water partition coefficient
LCxx : Lethal Concentration, for xx percent of test population
LDxx : Lethal Dose, for xx percent of test population.
ICxx : Inhibitory Concentration for xx of a substance
Ecxx : Effective Concentration of xx
N.O.S.: Not Otherwise Specified
OECD : Organization for Economic Co-operation and Development
OEL : Occupational Exposure Limit
P-Statement : Precautionary Statement
PBT : Persistent , Bioaccumulative and Toxic
PPE : Personal Protective Equipment
STEL : Short-term exposure limit
STOT : Specific Target Organ Toxicity
TLV : Threshold Limit Value
TWA : Time-weighted average
vPvB : Very Persistent and Very Bioaccumulative
WEL : Workplace Exposure Level
CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act
DOT : Department of Transportation
FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act
HMIRC : Hazardous Materials Information Review Commission
HMIS : Hazardous Materials Identification System
NFPA : National Fire Protection Association
NIOSH : National Institute for Occupational Safety and Health
OSHA : Occupational Safety and Health Administration
PMRA : Health Canada Pest Management Regulatory Agency
RTK : Right to Know
WHMIS : Workplace Hazardous Materials Information System