

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 04/06/2015 Revision date: 04/06/2015 Version: 1.1

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

**Product identifier** 

Product form : Article

Name : Kerosene Thermometer

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Thermometer

#### Details of the supplier of the safety data sheet

GSC International, Inc. 1747 N. Deffer Drive Nixa, MO 65714

United States of America

Tel: 417-374-7431 Fax: 417-374-7442

Email: info@gscinternationalinc.com

#### 1.4. **Emergency telephone number**

Country	Organization/Company	Address	Emergency number
MEXICO	Servicio de Informacion Toxicologica Sintox	Tintoreto #32 Edif. a Desp. Col. Nochebuena Mixcoac México, D.F.	1 800 009 2800 +52 55 5611 2634 /+52 55 5598 9095
UNITED STATES OF AMERICA	American Association of Poison Control Centers		1-800-222-1222

### **SECTION 2: Hazards identification**

#### Classification of the substance or mixture 2.1.

#### Classification (GHS-US)

Flam. Liq. 3 H226 Skin Irrit. 2 H315

Full text of H-phrases: see section 16

#### 2.2. **Label elements**

### **GHS-US** labeling

Signal word (GHS-US)

Hazard pictograms (GHS-US)





: Warning

Hazard statements (GHS-US)

: H226 - Flammable liquid and vapor H315 - Causes skin irritation

Precautionary statements (GHS-US) : P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P233 - Keep container tightly closed

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical/ventilating/lighting/... equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge

#### Other hazards 2.3.

No additional information available

#### **Unknown acute toxicity (GHS-US)**

Not applicable

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#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
kerosene	(CAS No) 8008-20-6	0 - 100	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

Full text of H-phrases: see section 16

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation

: Allow victim to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact

Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. Wash contaminated clothing before reuse. Get medical advice/attention. If skin irritation occurs: Gently wash with plenty of soap and water.

First-aid measures after eye contact

: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persist.

First-aid measures after ingestion

: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after skin contact : Causes skin irritation.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapor.

Explosion hazard : May form flammable/explosive vapor-air mixture.

Reactivity : The product is stable at normal handling and storage conditions.

#### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No

smoking.

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

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#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Additional hazards when processed

: Handle empty containers with care because residual vapors are flammable.

Precautions for safe handling

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Take precautionary measures against static discharge.

Use only non-sparking tools.

Hygiene measures : Wash Skin thoroughly after handling.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures

 Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof Flame proof, lighting, electrical equipment and ventilation equipment.

Storage conditions

: Keep container tightly closed. Keep only in the original container in a cool, well ventilated place away from : Direct sunlight, Heat-ignition.

: Strong bases. Strong acids.

Incompatible products
Incompatible materials

: Sources of ignition. Direct sunlight. Heat sources.

#### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Kerosene Thermometer	
ACGIH	Not applicable
OSHA	Not applicable

kerosene (8008-20-6)		
ACGIH	ACGIH TWA (mg/m³)	200 mg/m <sup>3</sup>
OSHA	Not applicable	

### 8.2. Exposure controls

Appropriate engineering controls

- : Provide adequate general and local exhaust ventilation.
- Personal protective equipment : Protective clothing. Protective goggles.





Hand protection

: Not required for normal conditions of use.

Eye protection

: Where eye contact may occur from use, Wear eye protection.

Skin and body protection

: Not required for normal conditions of use.

Respiratory protection

: Where exposure through inhalation may occur from use, respiratory protection equipment is

recommended.

Other information

: Do not eat, drink or smoke during use.

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#### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid Color : red

Odor No data available Odor threshold : No data available pΗ No data available Relative evaporation rate (butyl acetate=1) : No data available : No data available Melting point Freezing point : No data available Boiling point : 175 - 325 °C : 38 °C Flash point : 210 °C Auto-ignition temperature

Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapor pressure : 1 mm Hg 20°C

Relative vapor density at 20 °C : 4,5

Relative density : No data available Specific gravity / density :  $\approx 0.84 \text{ g/cm}^3$  Solubility : insoluble in water.

Water: Solubility in water of component(s) of the mixture :

•: 0,0007 g/100ml

Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidizing properties : No data available
Explosive limits : 0,7 - 5 vol %

#### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is stable at normal handling and storage conditions.

#### 10.2. Chemical stability

Flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.

#### 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

(Based on available data, the classification criteria are not met)

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kerosene (8008-20-6)	
LD50 oral rat	> 5000 mg/kg (Rat)
LD50 dermal rat	> 2000 mg/kg (Rat)
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	> 5,28 mg/l/4h (Rat)
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Not classified
	(Based on available data, the classification criteria are not met)
Respiratory or skin sensitization	: Not classified
	(Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified
	(Based on available data, the classification criteria are not met)Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
	(Based on available data, the classification criteria are not met)
kerosene (8008-20-6)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
	(Based on available data, the classification criteria are not met)Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified
	(Based on available data, the classification criteria are not met)
Specific target organ toxicity (repeated	: Not classified
exposure)	(Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified
	(Based on available data, the classification criteria are not met)

# **SECTION 12: Ecological information**

Potential Adverse human health effects and

Symptoms/injuries after skin contact

### 12.1. Toxicity

symptoms

Ecology - water : Toxic to aquatic life with long lasting effects.

: Causes skin irritation.

kerosene (8008-20-6)		
LC50 fish 1	18 - 25 mg/l (96 h; Pisces)	
LC50 other aquatic organisms 1	1 - 100 mg/l	
EC50 Daphnia 1	1,4 - 21 mg/l (Daphnia magna)	
LC50 fish 2	45 mg/l (Pimephales promelas)	
TLM fish 1	2990 ppm (24 h; Lepomis macrochirus)	
Threshold limit other aquatic organisms 1	1 - 100	
Threshold limit algae 1	4 - 8,Algae	

: Based on available data, the classification criteria are not met.

# 12.2. Persistence and degradability

Kerosene Thermometer		
Persistence and degradability	May cause long-term adverse effects in the environment.	
kerosene (8008-20-6)		
Persistence and degradability	Biodegradable in water. Readily biodegradable in water in anaerobic conditions. Forming sediment in water. Biodegradable in soil. Biodegradable in soil in anaerobic condition. Adsorbs into the soil.	

## 12.3. Bioaccumulative potential

Kerosene Thermometer	
Bioaccumulative potential	Not established.

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kerosene (8008-20-6)	
Log Pow	3,3 - 6 (Calculated)
Bioaccumulative potential	bioaccumulative.

#### 12.4. Mobility in soil

kerosene (8008-20-6)	
Surface tension	0,02 - 0,03 N/m

#### 12.5. Other adverse effects

Effect on ozone layer

Effect on the global warming : No known ecological damage caused by this product.

Other information : Avoid release to the environment.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Additional information : Handle empty containers with care because residual vapors are flammable.

Ecology - waste materials : Avoid release to the environment.

### **SECTION 14: Transport information**

In accordance with DOT

Transport document description : UN1223 Kerosene, 3, III

UN-No.(DOT) : UN1223
Proper Shipping Name (DOT) : Kerosene

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

Hazard labels (DOT) : 3 - Flammable liquid



Packing group (DOT) : III - Minor Danger

DOT Special Provisions (49 CFR 172.102)

144 - If transported as a residue in an underground storage tank (UST), as defined in 40 CFR 280.12, that has been cleaned and purged or rendered inert according to the American Petroleum Institute (API) Standard 1604 (IBR, see 171.7 of this subchapter), then the tank and this material are not subject to any other requirements of this subchapter. However, sediments remaining in the tank that meet the definition for a hazardous material are subject to the applicable regulations of this subchapter.

B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.

IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).

T2 - 1.5 178.274(d)(2) Normal...... 178.275(d)(3)

TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150

DOT Packaging Non Bulk (49 CFR 173.xxx) : 203 DOT Packaging Bulk (49 CFR 173.xxx) : 242

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DOT Quantity Limitations Passenger aircraft/rail : 60 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 220 L

CFR 175.75)

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

**Additional information** 

Other information : No supplementary information available.

**ADR** 

Transport document description : UN 1223 KEROSENE, 3, III, (D/E)

Packing group (ADR) : III

Class (ADR) : 3 - Flammable liquid

Hazard identification number (Kemler No.) : 30
Classification code (ADR) : F1

Hazard labels (ADR) : 3 - Flammable liquids



Orange plates

30 1223

Tunnel restriction code (ADR) : D/E LQ : 5I Excepted quantities (ADR) : E1

Transport by sea

UN-No. (IMDG) : 1223
Proper Shipping Name (IMDG) : KEROSENE

Class (IMDG) : 3 - Flammable liquids

Packing group (IMDG) : III - substances presenting low danger

Air transport

UN-No.(IATA) : 1223
Proper Shipping Name (IATA) : Kerosene

Class (IATA) : 3 - Flammable Liquids
Packing group (IATA) : III - Minor Danger

# **SECTION 15: Regulatory information**

## 15.1. US Federal regulations

#### kerosene (8008-20-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

#### **CANADA**

No additional information available

#### **EU-Regulations**

No additional information available

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 3 H226 Skin Irrit. 2 H315 Aquatic Chronic 2 H411

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Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xi; R38 N; R51/53 R10

Full text of R-phrases: see section 16 15.2.2. National regulations

15.3. US State regulations

### **SECTION 16: Other information**

Revision date : 04/06/2015

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006.

Other information : None.

Full text of H-phrases:

Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Asp. Tox. 1	Aspiration hazard Category 1
Flam. Liq. 3	Flammable liquids Category 3
Skin Irrit. 2	Skin corrosion/irritation Category 2
H226	Flammable liquid and vapor
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H411	Toxic to aquatic life with long lasting effects

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual

injury even if no treatment is given.

NFPA fire hazard : 3 - Liquids and solids that can be ignited under almost all

ambient conditions.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



**HMIS III Rating** 

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 3 Serious Hazard Physical : 0 Minimal Hazard

Personal Protection : B

SDS US (GHS HazCom 2012)

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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