

# Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 07.10.2017

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**Kerosene**

## SECTION 1: Identification

### Product identifier

**Product name:** Kerosene

**Product code:** KE1000

### Recommended use of the product and restriction on use

**Relevant identified uses:** Laboratory Chemicals

**Uses advised against:** Not determined or not applicable.

**Reasons why uses advised against:** Not determined or not applicable.

### Manufacturer or supplier details

#### Manufacturer:

**United States**

AquaPhoenix Scientific, Inc.

860 Gitts Run Road

Hanover, PA 17331

1-717-632-1291

#### Supplier:

**United States**

AquaPhoenix Scientific

860 Gitts Run Rd

Hanover

PA 17331

(717) 632-1291

### Emergency telephone number:

**United States**

**ChemTel Inc**

North America: 1-800-255-3924

International: 01-813-248-0585

## SECTION 2: Hazard(s) identification

### GHS classification:

Flammable liquids, category 3

Aspiration hazard, category 1

Skin irritation, category 2

Specific target organ toxicity - single exposure, category 3, central nervous system

### Label elements

#### Hazard pictograms:



**Signal word:** Danger

### Hazard statements:

H226 Flammable liquid and vapor

H304 May be fatal if swallowed and enters airways

H315 Causes skin irritation

H336 May cause drowsiness or dizziness

### Precautionary statements:

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/light/equipment

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P242 Use only non-sparking tools  
P243 Take precautionary measures against static discharge  
P280 Wear protective gloves/protective clothing/eye protection/face protection  
P264 Wash skin thoroughly after handling  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray  
P271 Use only outdoors or in a well-ventilated area  
P303+P361+P353 If on skin (or hair): Immediately remove/take off all contaminated clothing. Rinse skin with water/shower  
P370+P378 In case of fire: Use agents recommended in section 5 for extinction  
P331 Do not induce vomiting  
P301+P310 If swallowed: Immediately call a poison center or doctor/physician  
P321 Specific treatment (see supplemental first aid instructions on this label).  
P362 Take off contaminated clothing and wash before reuse  
P302+P352 If on skin: Wash with soap and water  
P332+P313 If skin irritation occurs: Get medical advice/attention  
P304+P340+P312 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell  
P405 Store locked up  
P403+P233 Store in a well ventilated place. Keep container tightly closed  
P501 Dispose of contents and container as instructed in Section 13

**Hazards not otherwise classified:** None

### SECTION 3: Composition/information on ingredients

| Identification           | Name     | Weight % |
|--------------------------|----------|----------|
| CAS number:<br>8008-20-6 | Kerosene | >99      |

**Additional Information:** None

### SECTION 4: First aid measures

#### Description of first aid measures

##### General notes:

Not determined or not applicable.

##### After inhalation:

Loosen clothing as necessary and position individual in a comfortable position  
Maintain an unobstructed airway  
Get medical advice/attention if you feel unwell

##### After skin contact:

Rinse affected area with soap and water  
If symptoms develop or persist, seek medical attention  
Wash affected area with soap and water  
Seek medical attention if symptoms develop or persist

##### After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes  
If symptoms develop or persist, seek medical attention

##### After swallowing:

Rinse mouth thoroughly  
Seek medical attention if irritation, discomfort, or vomiting persists

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

##### Acute symptoms and effects:

Not determined or not applicable.

##### Delayed symptoms and effects:

Not determined or not applicable.

#### Immediate medical attention and special treatment

##### Specific treatment:

Not determined or not applicable.

##### Notes for the doctor:

Not determined or not applicable.

### SECTION 5: Firefighting measures

#### Extinguishing media

##### Suitable extinguishing media:

Use Water (fog only), dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam

##### Unsuitable extinguishing media:

Do not use a water stream as an extinguisher

#### Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

Vapors can flow to distant ignition sources and flashback

Liquid is volatile and may generate an explosive atmosphere

#### Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

#### Special precautions:

Shut off sources of ignition

Carbon monoxide and carbon dioxide may form upon combustion

Heating causes a rise in pressure, risk of bursting and combustion

### SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation

Ensure air handling systems are operational

Wear protective eye wear, gloves and clothing

Beware of vapors accumulating to form explosive concentrations

Vapors can accumulate in low areas

#### Environmental precautions:

Should not be released into the environment

Prevent from reaching drains, sewer or waterway

#### Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing

Use spark-proof tools and explosion-proof equipment

Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)

Dispose of contents / container in accordance with local regulations

#### Reference to other sections:

Not determined or not applicable.

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### SECTION 7: Handling and storage

#### Precautions for safe handling:

- Use only with adequate ventilation.
- Avoid breathing mist or vapor.
- Do not eat, drink, smoke or use personal products when handling chemical substances.
- Take precautionary measures against electrostatic discharges.
- Use only non-sparking tools.

#### Conditions for safe storage, including any incompatibilities:

- Keep container tightly sealed.
- Protect from freezing and physical damage.
- Store in a cool, well-ventilated area.
- Store away from all ignition sources (open flames, hot surfaces, direct sunlight, spark sources).

### SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

#### Occupational Exposure limit values:

| Country (Legal Basis) | Substance | Identifier | Permissible concentration  |
|-----------------------|-----------|------------|--|
| ACGIH                 | Kerosene  | 8008-20-6  | 200 mg/m <sup>3</sup> , total hydrocarbon vapor  |
| NIOSH                 | Kerosene  | 8008-20-6  | 10 Hour Time-Weighted Average: 100 mg/3  |
| United States (OSHA)  | Kerosene  | 8008-20-6  | 8 hr Time Weighted Avg (TWA): 200 mg/3 , (Application restricted to conditions in which there are negligible aerosol exposures). |

#### Biological limit values:

No biological exposure limits noted for the ingredient(s).

#### Information on monitoring procedures:

- Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.
- Biological monitoring may also be appropriate for some substances.

#### Appropriate engineering controls:

- Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.
- Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.
- Use explosion-proof ventilation equipment.

#### Personal protection equipment

##### Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

##### Skin and body protection:

- Select glove material impermeable and resistant to the substance.
- Wear appropriate clothing to prevent any possibility of skin contact.

##### Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

#### General hygienic measures:

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Avoid contact with skin, eyes and clothing.  
Wash hands before breaks and at the end of work.  
Wash contaminated clothing before reuse.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

|   |                         |
|---|-------------------------|
| Appearance                              | Clear, colorless liquid |
| Odor                                    | Odorless                |
| Odor threshold                          | Not available.          |
| pH                                      | Not available.          |
| Melting point/freezing point            | -17.8°C                 |
| Initial boiling point/range             | 151.1 - 301°C           |
| Flash point (closed cup)                | 71.1°C                  |
| Evaporation rate                        | 2.4                     |
| Flammability (solid, gas)               | Not available.          |
| Upper flammability/explosive limit      | 5.0 vol. %              |
| Lower flammability/explosive limit      | 0.7 vol. %              |
| Vapor pressure                          | 5mmHg @ 38°C            |
| Vapor density                           | 4.5 (Air=1.0)           |
| Density                                 | Not available.          |
| Relative density                        | 0.8 (H2O=1)             |
| Solubilities                            | Insoluble in water.     |
| Partition coefficient (n-octanol/water) | Not available.          |
| Auto/Self-ignition temperature          | 210°C                   |
| Decomposition temperature               | Not available.          |
| Dynamic viscosity                       | Not available.          |
| Kinematic viscosity                     | Not available.          |
| Explosive properties                    | Not available.          |
| Oxidizing properties                    | Not available.          |

### Other information

## SECTION 10: Stability and reactivity

### Reactivity:

Does not react under normal conditions of use and storage.

### Chemical stability:

Stable under normal conditions of use and storage.

### Possibility of hazardous reactions:

None under normal conditions of use and storage.

### Conditions to avoid:

Incompatible products, excess heat, flames and sparks.

### Incompatible materials:

Strong oxidizers.

### Hazardous decomposition products:

Irritating gases and vapors.

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### SECTION 11: Toxicological information

#### Acute toxicity

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

**Product data:** No data available.

**Substance data:**

| Name     | Route      | Result                              |
|----------|------------|-------------------------------------|
| Kerosene | inhalation | LC50 > 5000 mg/m <sup>3</sup> - 4 h |

#### Skin corrosion/irritation

**Assessment:** Causes skin irritation

**Product data:** No data available.

**Substance data:** No data available.

#### Serious eye damage/irritation

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

**Product data:** No data available.

**Substance data:** No data available.

#### Respiratory or skin sensitization

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

**Product data:** No data available.

**Substance data:** No data available.

#### Carcinogenicity

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

**Product data:** No data available.

**Substance data:** No data available.

**International Agency for Research on Cancer (IARC):**

| Name     | Classification |
|----------|----------------|
| Kerosene | Group 3        |

**National Toxicology Program (NTP):** None of the ingredients are listed.

#### Germ cell mutagenicity

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

**Product data:** No data available.

**Substance data:** No data available.

#### Reproductive toxicity

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

**Product data:** No data available.

**Substance data:** No data available.

#### Specific target organ toxicity (single exposure)

**Assessment:** May cause drowsiness or dizziness

**Product data:** No data available.

**Substance data:** No data available.

#### Specific target organ toxicity (repeated exposure)

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

**Product data:** No data available.

**Substance data:** No data available.

#### Aspiration toxicity

**Assessment:** May be fatal if swallowed and enters airways

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**Product data:** No data available.

**Substance data:** No data available.

**Information on likely routes of exposure:** No data available.

**Symptoms related to the physical, chemical and toxicological characteristics:** No data available.

**Other information:** No data available.

### SECTION 12: Ecological information

#### Acute (short-term) toxicity

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

**Product data:** No data available.

**Substance data:** No data available.

#### Chronic (long-term) toxicity

**Product data:** No data available.

**Substance data:** No data available.

#### Persistence and degradability

**Product data:** No data available.

**Substance data:** No data available.

#### Bioaccumulative potential

**Product data:** No data available.

**Substance data:** No data available.

#### Mobility in soil

**Product data:** No data available.

**Substance data:** No data available.

**Other adverse effects:** No data available.



### SECTION 13: Disposal considerations

#### Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

### SECTION 14: Transport information

#### United States Transportation of dangerous goods (49 CFR DOT)

|                               |   |
|-------------------------------|---|
| UN number                     | 1223  |
| UN proper shipping name       | Kerosene  |
| UN transport hazard class(es) | 3   |
| Packing group                 | III   |
| Environmental hazards         | Marine Pollutant<br>Kerosene  |
| Special precautions for user  | None  |

#### International Maritime Dangerous Goods (IMDG)

|                         |          |
|-------------------------|----------|
| UN number               | 1223     |
| UN proper shipping name | Kerosene |



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|                               |                              |   |
|-------------------------------|------------------------------|---|
| UN transport hazard class(es) | 3                            |   |
| Packing group                 | III                          |   |
| Environmental hazards         | Marine Pollutant<br>Kerosene |   |
| Special precautions for user  | None                         |   |

### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

|                               |                              |   |
|-------------------------------|------------------------------|---|
| UN number                     | 1223                         |   |
| UN proper shipping name       | Kerosene                     |   |
| UN transport hazard class(es) | 3                            |   |
| Packing group                 | III                          |   |
| Environmental hazards         | Marine Pollutant<br>Kerosene |   |
| Special precautions for user  | None                         |   |

### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

|                    |      |
|--------------------|------|
| Bulk Name          | None |
| Ship type          | None |
| Pollution category | None |

## SECTION 15: Regulatory information

### United States regulations

#### Inventory listing (TSCA):

|           |          |        |
|-----------|----------|--------|
| 8008-20-6 | Kerosene | Listed |
|-----------|----------|--------|

**Significant New Use Rule (TSCA Section 5):** Not determined.

**Export notification under TSCA Section 12(b):** Not determined.

#### SARA Section 311/312 hazards:

|       |         |      |          |          |
|-------|---------|------|----------|----------|
| Acute | Chronic | Fire | Pressure | Reactive |
| No    | No      | No   | No       | No       |

**SARA Section 302 extremely hazardous substances:** Not determined.

#### SARA Section 313 toxic chemicals:

|           |          |            |
|-----------|----------|------------|
| 8008-20-6 | Kerosene | Not Listed |
|-----------|----------|------------|

**CERCLA:** Not determined.

**RCRA:** Not determined.

**Section 112(r) of the Clean Air Act (CAA):** Not determined.

#### Massachusetts Right to Know:

|           |          |        |
|-----------|----------|--------|
| 8008-20-6 | Kerosene | Listed |
| 8008-20-6 | Kerosene | Listed |

#### New Jersey Right to Know:

|           |          |        |
|-----------|----------|--------|
| 8008-20-6 | Kerosene | Listed |
|-----------|----------|--------|



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|           |          |        |
|-----------|----------|--------|
| 8008-20-6 | Kerosene | Listed |
|-----------|----------|--------|

#### New York Right to Know:

|           |          |        |
|-----------|----------|--------|
| 8008-20-6 | Kerosene | Listed |
| 8008-20-6 | Kerosene | Listed |

#### Pennsylvania Right to Know:

|           |          |        |
|-----------|----------|--------|
| 8008-20-6 | Kerosene | Listed |
| 8008-20-6 | Kerosene | Listed |

**California Proposition 65:** Not determined.

### SECTION 16: Other information

**Abbreviations and Acronyms:** None

#### Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

**NFPA:** 2-2-0

**HMIS:** 2-2-0

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**End of Safety Data Sheet**