

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 06.08.2017

Page 1 of 9

Oleic Acid

SECTION 1: Identification

Product identifier

Product name: Oleic Acid, 0.5% in IPA

Product code: OE1200SS

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

Emergency telephone number:

Canada

ChemTel: (24-hour)

+1(800)255-3924

+1(813)248-0585 (International)

SECTION 2: Hazard(s) identification

GHS classification:

Flammable liquids, category 2

Eye irritation, category 2A

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

Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements:

P233 Keep container tightly closed.

P271 Use only outdoors or in a well-ventilated area.

P240 Ground/bond container and receiving equipment.

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

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 06.08.2017

Page 2 of 9

Oleic Acid, 0.5% in IPA

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P264 Wash skin thoroughly after handling.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

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.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

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: 67-63-0 | Isopropanol (Isopropyl Alcohol) | 95 |
| CAS number: 112-80-1 | Oleic Acid, Lab Grade | 5 |

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

After skin contact:

Rinse affected area with soap and water

If symptoms develop or persist, seek medical attention

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

Remove contact lens(es) if able to do so during rinsing

Seek medical attention if irritation persists or if concerned

After swallowing:

Rinse mouth thoroughly

Seek medical attention if irritation, discomfort, or vomiting persists

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

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 06.08.2017

Page 3 of 9

Oleic Acid, 0.5% in IPA

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 dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam

Unsuitable extinguishing media:

Not determined or not applicable.

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:

Wear protective eye wear, gloves and clothing

Refer to Section 8

Special precautions:

Avoid inhaling gases, fumes, dust, mist, vapor and aerosols

Avoid contact with skin, eyes and clothing

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Beware of vapors accumulating to form explosive concentrations

Vapors can accumulate in low areas

Ensure adequate ventilation

Ensure air handling systems are operational

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

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:

Do not eat, drink, smoke or use personal products when handling chemical substances.

Avoid breathing mist or vapor.

Use only non-sparking tools.

Take precautionary measures against electrostatic discharges.

Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated area.

Keep container tightly sealed.

Keep away from all ignition sources: open flames, hot surfaces, direct sunlight, spark sources.

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 06.08.2017

Page 4 of 9

Oleic Acid, 0.5% in IPA

Store locked up.

Use appropriate containment to avoid environmental contamination.

Protect from freezing and physical damage.

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 | Isopropanol (Isopropyl Alcohol) | 67-63-0 | ACGIH TLV STEL 400 ppm |
| | Isopropanol (Isopropyl Alcohol) | 67-63-0 | ACGIH TLV TWA 200 ppm |
| NIOSH | Isopropanol (Isopropyl Alcohol) | 67-63-0 | NIOSH IDLH 2,000 ppm |
| | Isopropanol (Isopropyl Alcohol) | 67-63-0 | NIOSH STEL 500 ppm, 1,225 mg/m ³ |
| | Isopropanol (Isopropyl Alcohol) | 67-63-0 | NIOSH TWA 400 ppm, 980 mg/m ³ |
| United States (OSHA) | Isopropanol (Isopropyl Alcohol) | 67-63-0 | OSHA PEL TWA 400 ppm, 980 mg/m ³ |

Biological limit values:

| Substance | Identifier | Determinant | Sampling time | Permissible limits |
|---------------------------------|------------|-------------|----------------------------------|--------------------|
| Isopropanol (Isopropyl Alcohol) | 67-63-0 | Acetone | End of shift at end of workweek. | 40 mg/L |

Information on monitoring procedures:

Not determined or not applicable.

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

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.

Respiratory protection:

When necessary, use NIOSH-approved breathing equipment.

General hygienic measures:

Wash hands before breaks and at the end of work.

Avoid contact with skin, eyes and clothing.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

| | |
|----------------|----------------------------------|
| Appearance | Clear, colorless liquid |
| Odor | Alcohol |
| Odor threshold | Not determined or not available. |

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 06.08.2017

Page 5 of 9

Oleic Acid, 0.5% in IPA

| | |
|--|----------------------------------|
| pH | Not determined or not available. |
| Melting point/freezing point | Below -88 °C |
| Initial boiling point/range | Approx. 82 °C |
| Flash point (closed cup) | 12.0 °C |
| Evaporation rate | 3.0 |
| Flammability (solid, gas) | Flammable |
| Upper flammability/explosive limit | 12.7% |
| Lower flammability/explosive limit | 2% |
| Vapor pressure | Approx. 33 at 20 °C |
| Vapor density | Not determined or not available. |
| Density | Not determined or not available. |
| Relative density | 0.785 g/mL at 25 °C |
| Solubilities | Not determined or not available. |
| Partition coefficient (n-octanol/water) | log pow: 0.05 |
| Auto/Self-ignition temperature | 425.0 °C |
| Decomposition temperature | Not determined or not available. |
| Dynamic viscosity | Not determined or not available. |
| Kinematic viscosity | Not determined or not available. |
| Explosive properties | Not determined or not available. |
| Oxidizing properties | Not determined or 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:

Excess heat, ignition source or flames.

Incompatible materials:

None known.

Hazardous decomposition products:

None known.

SECTION 11: Toxicological information

Acute toxicity

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

Product data: No data available.

Substance data: No data available.

Skin corrosion/irritation

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

Product data: No data available.

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 06.08.2017

Page 6 of 9

Oleic Acid, 0.5% in IPA

Substance data: No data available.

Serious eye damage/irritation

Assessment: Causes serious eye irritation

Product data: No data available.

Substance data:

| Name | Result |
|---------------------------------|--------------------------------|
| Isopropanol (Isopropyl Alcohol) | Causes serious eye irritation. |

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 |
|---------------------------------|--|
| Isopropanol (Isopropyl Alcohol) | Group 3 - Not classifiable as to its carcinogenicity to humans |

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:

| Name | Result |
|---------------------------------|--|
| Isopropanol (Isopropyl Alcohol) | Specific Target Organ Toxicity, Single Exposure - May cause drowsiness or dizziness. |

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

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.

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 06.08.2017

Page 7 of 9

Oleic Acid, 0.5% in IPA

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 (US 40CFR262.11)

SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

| | |
|-------------------------------|---|
| UN number | 1993 |
| UN proper shipping name | Flammable Liquid, N.O.S., (Isopropanol Solution) Isopropanol |
| UN transport hazard class(es) | 3  |
| Packing group | II |
| Environmental hazards | None |
| Special precautions for user | None |

International Maritime Dangerous Goods (IMDG)

| | |
|-------------------------------|---|
| UN number | 1993 |
| UN proper shipping name | Flammable Liquid, N.O.S., (Isopropanol Solution) Isopropanol |
| UN transport hazard class(es) | 3  |
| Packing group | II |
| Environmental hazards | None |
| Special precautions for user | None |

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


Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 06.08.2017

Page 8 of 9

Oleic Acid, 0.5% in IPA

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| UN number | 1993 | | |
| UN proper shipping name | Flammable Liquid, N.O.S., (Isopropanol Solution) Isopropanol | | |
| UN transport hazard class(es) | 3 |  | |
| Packing group | II | | |
| Environmental hazards | None | | |
| 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):

| | | |
|----------|---------------------------------|--------|
| 67-63-0 | Isopropanol (Isopropyl Alcohol) | Listed |
| 112-80-1 | Oleic Acid, Lab Grade | 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:

| | | |
|---------|---------------------------------|------------|
| 67-63-0 | Isopropanol (Isopropyl Alcohol) | Not Listed |
|---------|---------------------------------|------------|

CERCLA: Not determined.

RCRA: Not determined.

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

Massachusetts Right to Know:

| | | |
|----------|---------------------------------|------------|
| 112-80-1 | Oleic Acid, Lab Grade | Not Listed |
| 67-63-0 | Isopropanol (Isopropyl Alcohol) | Listed |

New Jersey Right to Know:

| | | |
|----------|---------------------------------|------------|
| 112-80-1 | Oleic Acid, Lab Grade | Not Listed |
| 67-63-0 | Isopropanol (Isopropyl Alcohol) | Listed |

New York Right to Know:

| | | |
|----------|---------------------------------|------------|
| 112-80-1 | Oleic Acid, Lab Grade | Not Listed |
| 67-63-0 | Isopropanol (Isopropyl Alcohol) | Listed |

Pennsylvania Right to Know:

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 06.08.2017

Page 9 of 9

Oleic Acid, 0.5% in IPA

| | | |
|----------|---------------------------------|--------|
| 112-80-1 | Oleic Acid, Lab Grade | Listed |
| 67-63-0 | Isopropanol (Isopropyl Alcohol) | Listed |

California Proposition 65: Not determined.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

NFPA: 2-3-0

HMIS: 2-3-0

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End of Safety Data Sheet