according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: June 04, 2019

# **1** Identification Product identifier • Trade name: Sulfuric Acid Reagent · Product code: AR-1018-1000 EW Recommended use and restriction on use · Recommended use: Laboratory chemicals Restrictions on use: No relevant information available. • Details of the supplier of the Safety Data Sheet · Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 Phone: (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com Distributor: Aqua Analytics 39555 Orchard Hill Place, Suite 600 Novi. MI 48375 (888) 712-4000 · Emergency telephone number: ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International) 2 Hazard(s) identification

#### · Classification of the substance or mixture

The substance is not classified as hazardous according to the Globally Harmonized System (GHS).

<sup>•</sup> Label elements

· GHS label elements Not regulated.

- Hazard pictograms: Not regulated.
- Signal word: Not regulated.
- · Hazard statements: Not regulated.

• **Other hazards** There are no other hazards not otherwise classified that have been identified.

# 3 Composition/information on ingredients

# <sup>•</sup> Chemical characterization: Substances

· Components:

7732-18-5 Water

7664-93-9 Sulfuric acid

Wet. Corr.1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318

# • Additional information:

For the wording of the listed Hazard Statements, refer to section 16.

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.

>95%

<5%

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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# 4 First-aid measures

# <sup>•</sup> Description of first aid measures

• After inhalation: Supply fresh air; consult doctor in case of complaints.

- After skin contact:
- Rinse with warm water.

If skin irritation is experienced, consult a doctor.

- After eye contact:
- Remove contact lenses if worn, if possible.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

- Most important symptoms and effects, both acute and delayed:
- Nausea in case of ingestion.

Gastric or intestinal disorders when ingested.

Indication of any immediate medical attention and special treatment needed:

No relevant information available.

# **5** Fire-fighting measures

#### Extinguishing media

• Suitable extinguishing agents:

The product is not flammable.

Use fire fighting measures that suit the environment.

- · For safety reasons unsuitable extinguishing agents: None.
- Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

Advice for firefighters

# · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

# 6 Accidental release measures

<sup>•</sup> Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required.

Ensure adequate ventilation.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

#### **Environmental precautions**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

# Methods and material for containment and cleaning up

Use limestone to neutralize and/or absorb spill.

Clean the affected area carefully; suitable cleaners are:

Warm water

Send for recovery or disposal in suitable receptacles.

# **Reference to other sections**

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See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

# 7 Handling and storage

# <sup>·</sup> Handling

# Precautions for safe handling:

Avoid splashes or spray in enclosed areas. Use only in well ventilated areas. Avoid breathing mist, vapors, or spray. Avoid contact with the eyes and skin.

# <sup>•</sup> Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

Use only receptacles specifically permitted for this substance/product. Unsuitable material for receptacle: aluminium. Store in cool, dry conditions in well sealed receptacles.

• Information about storage in one common storage facility: Store away from foodstuffs.

Do not store together with alkalis (caustic solutions).

• Specific end use(s) No relevant information available.

# 8 Exposure controls/personal protection

# <sup>·</sup> Control parameters

7664-93-9 Sulfu	uric acid
PEL (USA)	Long-term value: 1 mg/m <sup>3</sup>
REL (USA)	Long-term value: 1 mg/m <sup>3</sup>
TLV (USA)	Long-term value: 0.2* mg/m³ *as thoracic fraction
EL (Canada)	Long-term value: 0.2 mg/m <sup>3</sup> ACGIH A2; IARC 1
EV (Canada)	Long-term value: 0.2 mg/m <sup>3</sup>
LMPE (Mexico)	Long-term value: 0.2* mg/m³ A2;*fracción torácica

# General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

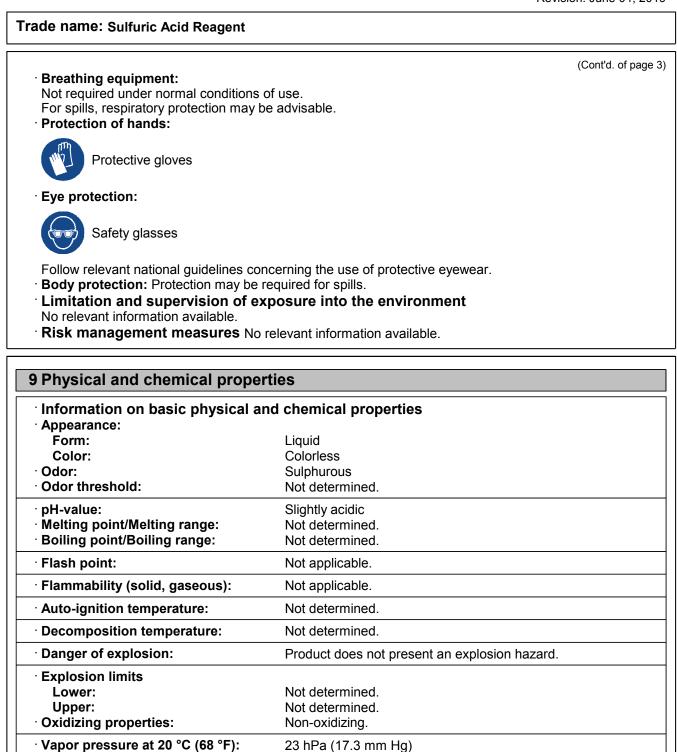
**Engineering controls:** Provide adequate ventilation.

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Not determined.

Not determined.

Not determined.

· Density:

**Relative density:** 

Evaporation rate:

Vapor density:

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	(Cont'd. of page
<ul> <li>Solubility in / Miscibility with Water:</li> </ul>	Soluble.
Partition coefficient (n-octand	ol/water): Not determined.
Viscosity Dynamic: Kinematic: Other information	Not determined. Not determined. No relevant information available.
) Stability and reactivity	
No decomposition if used and s <b>Possibility of hazardous re</b> Toxic fumes may be released if	ditions to be avoided: tored according to specifications. eactions heated above the decomposition point.
No decomposition if used and s Possibility of hazardous re	tored according to specifications. eactions heated above the decomposition point. way from oxidizing agents. alis.
No decomposition if used and s <b>Possibility of hazardous re</b> Toxic fumes may be released if Reacts with certain metals. Reacts with alkali (lyes). <b>Conditions to avoid</b> Store a <b>Incompatible materials</b> Alka	tored according to specifications. actions heated above the decomposition point. way from oxidizing agents. alis. products Sulfur oxides (SOx)
No decomposition if used and s Possibility of hazardous re Toxic fumes may be released if Reacts with certain metals. Reacts with alkali (lyes). Conditions to avoid Store a Incompatible materials Alka Hazardous decomposition Information on toxicologic Acute toxicity: Based on availa LD/LC50 values that are relev Primary irritant effect: On the skin: Based on availabl	tored according to specifications. actions heated above the decomposition point. way from oxidizing agents. alis. products Sulfur oxides (SOx) n al effects able data, the classification criteria are not met. ant for classification: None. e data, the classification criteria are not met. e data, the classification criteria are not met. e data, the classification criteria are not met.
No decomposition if used and s Possibility of hazardous re Toxic fumes may be released if Reacts with certain metals. Reacts with alkali (lyes). Conditions to avoid Store a Incompatible materials Alka Hazardous decomposition Information on toxicologic Acute toxicity: Based on available LD/LC50 values that are releved Primary irritant effect: On the skin: Based on available On the eye: Based on available	tored according to specifications. actions heated above the decomposition point. way from oxidizing agents. alis. products Sulfur oxides (SOx) n al effects able data, the classification criteria are not met. ant for classification: None. e data, the classification criteria are not met. e data, the classification criteria are not met. ffects known.
No decomposition if used and s Possibility of hazardous re Toxic fumes may be released if Reacts with certain metals. Reacts with alkali (lyes). Conditions to avoid Store a Incompatible materials Alka Hazardous decomposition Toxicological informatio Information on toxicologic Acute toxicity: Based on available LD/LC50 values that are releved Primary irritant effect: On the skin: Based on available Sensitization: No sensitizing effects	tored according to specifications. eactions heated above the decomposition point. way from oxidizing agents. alis. products Sulfur oxides (SOx) n al effects able data, the classification criteria are not met. ant for classification: None. e data, the classification criteria are not met. e data, the classification criteria are not met. e data, the classification criteria are not met. ffects known. or Research on Cancer):

# **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

· Probable route(s) of exposure:

Ingestion. Inhalation.

Eye contact.

Skin contact.

· Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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- Carcinogenicity: Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- Aspiration hazard: Based on available data, the classification criteria are not met.

# **12 Ecological information**

<sup>·</sup> Toxicity

- · Aquatic toxicity No relevant information available.
- · Persistence and degradability No relevant information available.
- · Bioaccumulative potential: No relevant information available.
- Mobility in soil: No relevant information available.
- <sup>•</sup> Additional ecological information

· General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

• Other adverse effects No relevant information available.

# 13 Disposal considerations

# <sup>·</sup> Waste treatment methods

#### · Recommendation:

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

# <sup>·</sup> Uncleaned packagings

• Recommendation: Disposal must be made according to official regulations.

14 Transport information		
<sup>·</sup> UN-Number · DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
<ul> <li>UN proper shipping name</li> <li>DOT, ADR/RID/ADN, IMDG, IATA</li> </ul>	Not regulated.	
<ul> <li>Transport hazard class(es)</li> </ul>		
· DOT, ADR/RID/ADN, IMDG, IATA · Class	Not regulated.	
<ul> <li>Packing group</li> <li>DOT, ADR/RID/ADN, IMDG, IATA</li> </ul>	Not regulated.	
		(Cont'd. on page 7)

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· Environmental hazards	· · ·
Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex	ll of
MARPOL73/78 and the IBC Code	
	Not applicable.
Regulatory information	
Regulatory information	gulations/legislation specific for the substance
Regulatory information Safety, health and environmental reg	
Regulatory information Safety, health and environmental reg mixture	

7664-93-9 Sulfuric acid

• Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act)

7664-93-9 Sulfuric acid

7732-18-5 Water

· Proposition 65 (California)

· Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

• EPA (Environmental Protection Agency):

None of the ingredients are listed.

· IARC (International Agency for Research on Cancer):

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· Canadian Domestic Substances List (DSL):

None of the ingredients are listed.

# 16 Other information

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(Cont'd. This information is based on our present knowledge. However, this shall not constitute a guaranted specific product features and shall not establish a legally valid contractual relationship.	of page 7) e for any
<ul> <li>Abbreviations and acronyms:         <ul> <li>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods</li> <li>DOT: US Department of Transportation</li></ul></li></ul>	g/home/
Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ec 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers	I., ISBN:
SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com	