

**Safety Data Sheet**

according to 29CFR1910/1200 and GHS Rev. 3

**Initial preparation date:** : 10.31.2016**Sulfuric Acid Reagent****SECTION 1: Identification of the substance/mixture and of the supplier****Product name:** Sulfuric Acid Reagent**Manufacturer/Supplier Article number:** AR-1017-60 EW**Recommended uses of the product and restrictions on use:** Laboratory Reagent**Manufacturer Details:**

Aqua Analytics  
39555 Orchard Hill Place, Suite 600, Novi, MI 48375  
(888) 712-4000

**Emergency telephone number:**

Emergency Telephone No.: (800) 424-9300

**SECTION 2: Hazards identification****Classification of the substance or mixture:****Signal word:** None**Hazard statements:**

None

**Precautionary statements:**

None

**Other Non-GHS Classification:** None**SECTION 3: Composition/information on ingredients****Ingredients:**

CAS / EINECS #	Ingredient Name	Wt. %
7732-18-5	Water	>97
7664-93-9	Sulfuric Acid	<3

**SECTION 4: First aid measures****Description of first aid measures****After inhalation:**

Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. Maintain an unobstructed airway. Immediately call a POISON CONTROL CENTER or seek medical attention.

**After skin contact:**

Immediately remove all contaminated clothing. Wash affected area with soap and water. Immediately call a POISON CONTROL CENTER or 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. Immediately call a POISON CONTROL CENTER or seek medical attention.

**After swallowing:**

**Safety Data Sheet**

according to 29CFR1910/1200 and GHS Rev. 3

**Initial preparation date:** : 10.31.2016**Sulfuric Acid Reagent**

Immediately call a POISON CONTROL CENTER or seek medical attention. Do not induce vomiting. Rinse mouth and then drink plenty of water.

**Most important symptoms and effects, both acute and delayed:** None**Indication of any immediate medical attention and special treatment needed:** None**SECTION 5: Firefighting measures****Extinguishing media****Suitable extinguishing agents:**

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition.

**Unsuitable extinguishing agents:** None**Special hazards arising from the substance or mixture:**

Thermal decomposition can lead to release of irritating gases and vapors.

**Advice for firefighters:****Protective equipment:**

Wear protective eye wear, gloves and clothing. Refer to Section 8. Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit.

**Additional information (precautions):**

Heating causes a rise in pressure, risk of bursting and combustion. Shut off sources of ignition. Carbon monoxide and carbon dioxide may form upon 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.

**Environmental precautions:**

Should not be released into the environment. Prevent from reaching drains, sewer or waterway.

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

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:** None**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 with adequate ventilation.

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

Store in a cool, well-ventilated area. Store away from foodstuffs.

**SECTION 8: Exposure controls/personal protection****Control parameters:**

7664-93-9, Sulfuric Acid, OSHA PEL TWA 1.0 mg/m<sup>3</sup>.  
 7664-93-9, Sulfuric Acid, ACGIH TLV: 0.2 mg/m<sup>3</sup>, thoracic fraction.  
 7664-93-9, Sulfuric Acid, NIOSH REL TWA 1.0 mg/m<sup>3</sup>.

**Safety Data Sheet**

according to 29CFR1910/1200 and GHS Rev. 3

Initial preparation date: : 10.31.2016

**Sulfuric Acid Reagent**

**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.

**Respiratory protection:** When necessary, use NIOSH-approved breathing equipment.

**Protection of skin:** Select glove material impermeable and resistant to the substance.

**Eye protection:** Safety goggles or glasses, or appropriate eye protection.

**General hygienic measures:** Wash hands before breaks and at the end of work. Avoid contact with skin, eyes and clothing. Perform routine housekeeping. Wash contaminated clothing before reusing.

**SECTION 9: Physical and chemical properties**

<b>Appearance (physical state, color):</b>	Clear, colorless liquid	<b>Explosion limit lower:</b>	Not available
		<b>Explosion limit upper:</b>	Not available
<b>Odor:</b>	Odorless	<b>Vapor pressure at 20°C:</b>	Not available
<b>Odor threshold:</b>	Not available	<b>Vapor density:</b>	Not available
<b>pH-value:</b>	<2	<b>Relative density:</b>	Approx. 1
<b>Melting/Freezing point:</b>	Approx. 0°C	<b>Solubilities:</b>	Infinite solubility in water.
<b>Boiling point/Boiling range:</b>	Approx. 100°C	<b>Partition coefficient (n-octanol/water):</b>	Not available
<b>Flash point (closed cup):</b>	Not available	<b>Auto/Self-ignition temperature:</b>	Not available
<b>Evaporation rate:</b>	Not available	<b>Decomposition temperature:</b>	Not available
<b>Flammability (solid, gaseous):</b>	Not available	<b>Viscosity:</b>	a. Kinematic: Not available b. Dynamic: Not available
<b>Density at 20°C:</b>	Not available		

**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.

**Possible hazardous reactions:**

None under normal conditions of use and storage.

**Conditions to avoid:**

None known.

**Incompatible materials:**

None known.

**Hazardous decomposition products:**

None known.

**SECTION 11: Toxicological information**

**Acute Toxicity:** None

**Safety Data Sheet**

according to 29CFR1910/1200 and GHS Rev. 3

**Initial preparation date:** : 10.31.2016**Sulfuric Acid Reagent****Chronic Toxicity:** No additional information.**Skin corrosion/irritation:**

Corrosive to the skin.

**Serious eye damage/irritation:** No additional information.**Respiratory or skin sensitization:** No additional information.**Carcinogenicity:****Sulfuric Acid:** Strong inorganic acid mists containing sulfuric acid may cause cancer.**Germ cell mutagenicity:** No additional information.**Reproductive Toxicity:** No additional information.**STOT-single and repeated exposure:** No additional information.**Additional toxicological information:**

No additional information.

**SECTION 12: Ecological information****Ecotoxicity:** No additional information.**Persistence and degradability:** No additional information.**Bioaccumulative potential:** No additional information.**Mobility in soil:** No additional information.**Other adverse effects:** No additional information.**SECTION 13: Disposal considerations****Waste disposal recommendations:**

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****US DOT****UN Number:**

ADR, ADN, DOT, IMDG, IATA

Not Regulated

**Limited Quantity Exception:**

None

**Bulk:****RQ (if applicable):** None**Proper shipping Name:** Not Regulated.**Hazard Class:** None**Packing Group:** Not Regulated.**Marine Pollutant (if applicable):** No**Comments:** None**Non Bulk:****RQ (if applicable):** None**Proper shipping Name:** Not Regulated.**Hazard Class:** None**Packing Group:** Not Regulated.**Marine Pollutant (if applicable):** No**Comments:** None**SECTION 15: Regulatory information****United States (USA)**

**Safety Data Sheet**

according to 29CFR1910/1200 and GHS Rev. 3

**Initial preparation date:** : 10.31.2016**Sulfuric Acid Reagent****SARA Section 311/312 (Specific toxic chemical listings):**

None of the ingredients are listed.

**SARA Section 313 (Specific toxic chemical listings):****RCRA (hazardous waste code):**

None of the ingredients are listed.

**TSCA (Toxic Substances Control Act) :****CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):****Proposition 65 (California):****Chemicals known to cause cancer:****Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

**Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

**Canada****Canadian Domestic Substances List (DSL) :****SECTION 16: Other information**

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:** 1-0-0**HMIS:** 1-0-0**GHS Full Text Phrases:** None**Abbreviations and Acronyms:** None