# Safety Data Sheet according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: July 17, 2020

1 Identificatio	n
· Product iden	tifier
<ul> <li>Trade name: <u>C</u></li> <li>Product code:</li> </ul>	CA3040SS
· Recommended	<b>d use and restriction on use d use:</b> Laboratory chemicals <b>n use:</b> No relevant information available.
<ul> <li>Details of the</li> <li>Manufacturer/S</li> <li>AquaPhoenix S</li> <li>860 Gitts Run F</li> <li>Hanover, PA 17</li> <li>Tel +1 (717)632</li> <li>Toll-Free: (866)</li> <li>info@aquaphoe</li> <li>Distributor:</li> <li>AquaPhoenix S</li> <li>860 Gitts Run F</li> <li>Hanover, PA 1</li> <li>(717) 632-1291</li> </ul>	ccientific, Inc. Road 7331 USA 2-1291 632-1291 enixsci.com ccientific Road, 17331
ChemTel Inc. (800)255-3924	ephone number: (North America) 585 (International)
2 Hazard(s) id	entification
Eye Irrit. 2A H3	n of the substance or mixture 319 Causes serious eye irritation. 335 May cause respiratory irritation.
• Label elemen • GHS label elen The product is o • Hazard pictogr	nents classified and labeled according to the Globally Harmonized System (GHS).
GHS07	

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54%

46%

P305+P351+P3	38 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a poison center/doctor if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

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

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

#### · Chemical characterization: Mixtures

#### · Components:

77-92-9 Citric acid

Eye Irrit. 2A, H319; STOT SE 3, H335

7732-18-5 Water

#### 4 First-aid measures

#### • Description of first aid measures

· General information: No special measures required.

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediately rinse with water.

If skin irritation is experienced, consult a doctor.

#### • After eye contact:

Protect unharmed eye.

Remove contact lenses if worn.

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:

Gastric or intestinal disorders when ingested.

Nausea in case of ingestion.

#### · Danger:

Causes serious eye irritation.

May cause respiratory irritation.

Indication of any immediate medical attention and special treatment needed:

If medical advice is needed, have product container or label at hand.

#### 5 Fire-fighting measures

#### Extinguishing media

• Suitable extinguishing agents: Use fire fighting measures that suit the environment.

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<ul> <li>For safety reasons unsuitable extinguishing agents: No relevant information available</li> <li>Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire.</li> <li>Advice for firefighters</li> <li>Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit.</li> </ul>		(Cont'd. of pag ible.
6 Accidental release measures		

• Environmental precautions No special measures required. • Methods and material for containment and cleaning up Use neutralising agent: bicarbonate de sodium.

Send for recovery or disposal in suitable receptacles.

#### **Reference to other sections**

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.

Information about protection against explosions and fires: No special measures required.

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

- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility:
- Store away from foodstuffs.
- Store away from oxidizing agents.

Do not store together with alkalis (caustic solutions).

- Further information about storage conditions:
- Keep containers tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Specific end use(s) No relevant information available.

#### 8 Exposure controls/personal protection

#### · Control parameters

· Components with limit values that require monitoring at the workplace:

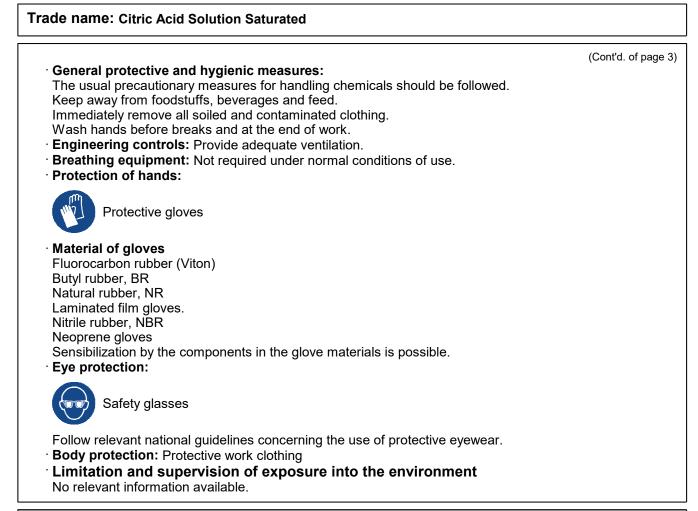
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

#### • Exposure controls

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Information on bools about all		
Information on basic physical a	and chemical properties	
Appearance:		
Form:	Liquid	
Color:	Clear	
Odor:	Slight	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Melting point/Melting range:	Not determined.	
Boiling point/Boiling range:	>105 °C (>221 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Auto-ignition temperature:	Not determined.	
Decomposition temperature:	Not determined.	

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#### Trade name: Citric Acid Solution Saturated (Cont'd. of page 4) · Danger of explosion: Product is not explosive. However, formation of explosive air/ vapor mixtures are possible. · Explosion limits Lower: Not determined. Upper: Not determined. Oxidizing properties: Not determined. · Vapor pressure at 20 °C (68 °F): 23 hPa (17.3 mm Hg) · Density at 20 °C (68 °F): 1.3-1.4 g/cm<sup>3</sup> (10.85-11.68 lbs/gal) • Relative density: Not determined. · Vapor density: Not determined. · Evaporation rate: Not determined. · Solubility in / Miscibility with Water: Fully miscible. · Partition coefficient (n-octanol/water): Not determined. · Viscositv **Dynamic:** Not determined. Kinematic: Not determined. Other information No relevant information available.

### 10 Stability and reactivity

· Reactivity: No relevant information available.

• Chemical stability: Stable under normal temperatures and pressures.

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

Possibility of hazardous reactions

Toxic fumes may be released if heated above the decomposition point.

Reacts with alkali (lyes).

Reacts with strong oxidizing agents.

· Conditions to avoid Excessive heat.

#### <sup>·</sup> Incompatible materials

Oxidizers

Alkalis.

#### · Hazardous decomposition products

Under fire conditions only:

Carbon monoxide and carbon dioxide

### 11 Toxicological information

Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

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Oral LD50 5040 mg/kg (mouse)

#### · Primary irritant effect:

77-92-9 Citric acid

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

· On the eye: Irritating effect.

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

· IARC (International Agency for Research on Cancer):

#### · NTP (National Toxicology Program):

None of the ingredients are listed.

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

None of the ingredients are listed.

#### · Probable route(s) of exposure:

Ingestion. Inhalation.

Eye contact.

Skin contact.

#### Acute effects (acute toxicity, irritation and corrosivity):

Causes serious eye irritation.

May cause respiratory irritation.

- · Repeated dose toxicity: No relevant information available.
- · Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · 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:** May cause respiratory irritation.

• 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

#### · Waste treatment methods

· Recommendation:

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

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disposal for hazardous and nonhazardous wastes.

#### <sup>·</sup> Uncleaned packagings

• **Recommendation:** Disposal must be made according to official regulations. • **Recommended cleansing agent:** Water, if necessary with cleansing agents.

Transport information		
· UN-Number · DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
<sup>·</sup> UN proper shipping name <sup>·</sup> DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
· Transport hazard class(es)		
<sup>·</sup> DOT, ADR/RID/ADN, IMDG, IATA <sup>·</sup> Class	Not regulated.	
<sup>·</sup> Packing group <sup>·</sup> DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
· Environmental hazards	Not applicable.	
Special precautions for user	Not applicable.	
<sup>•</sup> Transport in bulk according to Anne MARPOL73/78 and the IBC Code	<b>x II of</b> Not applicable.	

### 15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture · United States (USA) · SARA · Section 302 (extremely hazardous substances): None of the ingredients are listed. Section 313 (Specific toxic chemical listings): All ingredients are listed. · TSCA (Toxic Substances Control Act) All ingredients are listed or exempt. ACTIVE 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. (Cont'd. on page 8)

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• 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):

· Canadian Domestic Substances List (DSL):

All ingredients listed on DSL or NDSL.

#### **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

OSHA: Occupational Safety & Health Administration

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

#### Sources

Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTol

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