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

Revision: January 29, 2021

1 Identification
Product identifier
 Trade name: <u>Acetic Acid Solution, 1.0N</u> Product code: S25840A
 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 USA Tel +1 (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com Distributor: Fisher Science Education 6771 Silver Crest Road, Nazareth, PA 18064 (800) 955-1177
 Emergency telephone number: ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International)
2 Hazard(s) identification

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

[·] Label elements

· GHS label elements Not regulated.

- · Hazard pictograms: Not regulated.
- · Signal word: None.
- · Hazard statements: Not regulated.

· Precautionary statements: None.

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

3 Composition/information on ingredients • Chemical characterization: Mixtures • Components: 7732-18-5 Water 64-19-7 Acetic acid • Flam. Liq. 3, H226 <10%</td> • Met. Corr.1, H290; Skin Corr. 1A, H314 • Additional information: For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. (Cont'd. on page 2)

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

4 First-aid measures

 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. 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. Slight irritant effect on eyes. Slight irritant effect on skin and mucous membranes. · Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

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

Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation

Ensure adequate ventilation.

Use personal protective equipment as required.

Environmental precautions No special measures required.

Methods and material for containment and cleaning up

Towel or mop up material and collect in a suitable container.

For larger spills, add sawdust, chalk or other inert binding material, then sweep up and discard. Send for recovery or disposal in suitable receptacles.

Reference to other sections

(Cont'd. on page 3)

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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

· Handling

• Precautions for safe handling:

Open and handle receptacle with care.

Avoid splashes or spray in enclosed areas.

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

Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

Store in cool, dry conditions in well sealed receptacles.

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

• **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 following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

64-19-7 Acetic acid

PEL (USA)	Long-term value: 25 mg/m³, 10 ppm
REL (USA)	Short-term value: 37 mg/m³, 15 ppm Long-term value: 25 mg/m³, 10 ppm
TLV (USA)	Short-term value: 37 mg/m³, 15 ppm Long-term value: 25 mg/m³, 10 ppm
EL (Canada)	Short-term value: 15 ppm Long-term value: 10 ppm
EV (Canada)	Short-term value: 37 mg/m³, 15 ppm Long-term value: 25 mg/m³, 10 ppm
LMPE (Mexico)	Short-term value: 15 ppm Long-term value: 10 ppm

Exposure controls

· General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

• Engineering controls: No relevant information available.

- · Breathing equipment: Not required under normal conditions of use.
- Protection of hands:

Gloves not required under normal conditions of use.

Protection may be required for spills.

Material of gloves

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Nitrile rubber, NBR Butyl rubber, BR Neoprene gloves Natural rubber, NR Fluorocarbon rubber (Viton) **Eye protection:**



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

Body protection: Use personal protective equipment as required.

· Limitation and supervision of exposure into the environment No special requirements.

· Risk management measures No special requirements.

Information on basic physical a	and chemical properties	
Appearance: Form:	Liquid	
Color:	Liquid Colorless	
· Odor:	Characteristic	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Melting point/Melting range:	Not determined.	
Boiling point/Boiling range:	>100 °C (>212 °F)	
Flash point:	The product is not flammable.	
· Flammability (solid, gaseous):	Not applicable.	
Auto-ignition temperature:	Not determined.	
Decomposition temperature:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard	
Explosion limits		
Lower:	Not determined.	
Upper:	Not determined.	
Oxidizing properties:	Not determined.	
Vapor pressure:	Not determined.	
Density:		
Relative density:	1	
Vapor density:	Not determined.	
Evaporation rate:	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wa	ter): Not determined.	
		(Cont'd. on page

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de name: Acetic Acid Solutio	n, 1.0N	
	(Co	nt'd. of pa
Viscosity		
Dynamic:	Not determined.	
Kinematic: Other information	Not determined.	
Other Information	No relevant information available.	
Stability and reactivity		
• Reactivity: No relevant inform		
	er normal temperatures and pressures.	
Thermal decomposition / con		
No decomposition if used and s	tored according to specifications.	
Possibility of hazardous re	actions	
Reacts with alkali (lyes).		
Reacts with certain metals.	onto.	
Reacts with strong oxidizing age Toxic fumes may be released if	heated above the decomposition point.	
Conditions to avoid No rele		
Incompatible materials Alka		
-	products Carbon monoxide and carbon dioxide	
Toxicological informatio		
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- 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

[·] 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.
- [•] Additional ecological information

· General notes:

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. If the dilution of the use-level pH-value is considerably increased after use, the aqueous waste, emptied into drains, is only low water-dangerous.

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:

Smaller quantities can be disposed of with household waste.

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.

[·] Uncleaned packagings

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

• Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number		
· DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
[·] UN proper shipping name		
· DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
[·] Transport hazard class(es)		
· DOT, ADR/RID/ADN, IMDG, IATA		

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Class	Not regulated.
[·] Packing group · DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.
Environmental hazards Marine pollutant:	Νο
Special precautions for user	Not applicable.
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	Il of Not applicable.
Regulatory information	
Safety, health and environmental re mixture United States (USA) SARA	gulations/legislation specific for the substance
• Section 302 (extremely hazardous substa	nces):
None of the ingredients are listed.	,
Section 313 (Specific toxic chemical listin	nas):
None of the ingredients are listed.	····
• TSCA (Toxic Substances Control Act)	
64-19-7 Acetic acid	
7732-18-5 Water	
Proposition 65 (California)	
Chemicals known to cause cancer:	
Chemicals known to cause cancer:	al toxicity for females:
Chemicals known to cause cancer: None of the ingredients are listed.	al toxicity for females:
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16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any (Cont'd. on page $\dot{8}$)

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Trade name: Acetic Acid Solution, 1.0N	
specific product features and shall not establish a legally valid contractual relationship.	(Cont'd. of page 7)
 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	
 Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/soverview/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 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers 	Ū.