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

Revision: April 19, 2020

1 Identification
· Product identifier
 Trade name: <u>Ammonium Acetate Buffer Solution</u> Product code: AA8810SS
 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: AquaPhoenix Scientific 860 Gitts Run Road, Hanover, PA 17331 (717) 632-1291
• 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 Met. Corr.1 H290 May be corrosive to metals. Skin Corr. 1B H314 Causes severe skin burns and eye damage.
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	(Cont'd. of page 1)
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	If swallowed: Rinse mouth. Do NOT induce vomiting.
	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P405	Store locked up.
P406	Store in corrosive resistant container with a resistant inner liner.
	Dispose of contents/container in accordance with local/regional/national/international regulations.
[·] Other hazards ⊺	here are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Componei	
7732-18-5	Water
64 40 7	A softe sold

//32-18-5	Water	1.69%
		73.31%
	 Flam. Liq. 3, H226 Met. Corr.1, H290; Skin Corr. 1A, H314 	
631-61-8	ammonium acetate	25%
· Additional	information:	

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

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

4 First-aid measures

Description of first aid measures · General information: Immediately remove any clothing soiled by the product. · After inhalation: Supply fresh air. Provide oxygen treatment if affected person has difficulty breathing. If experiencing respiratory symptoms: Call a poison center/doctor. After skin contact: Immediately rinse with water. If skin irritation continues, consult a doctor. Seek immediate help for blistering or open wounds. · After eye contact: Protect unharmed eye. Remove contact lenses if worn. Rinse opened eye for several minutes under running water. Then consult a doctor. · After swallowing:

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(Cont'd. of page 2) 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: Strong caustic effect on skin and mucous membranes. Danger of severe eye injury. Gastric or intestinal disorders when ingested. Nausea in case of ingestion. Coughing Acidosis Dizziness · Danger: Danger of gastric perforation. Causes serious eye damage. Harmful if inhaled. May be harmful if swallowed. Indication of any immediate medical attention and special treatment needed: Medical supervision for at least 48 hours. 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.

• 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. Keep away from ignition sources.

Protect from heat.

Environmental precautions

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

Methods and material for containment and cleaning up

Use limestone to neutralize and/or absorb spill.

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.

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7 Handling and storage

[·] Handling

Precautions for safe handling:

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated 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 only in the original receptacle.

Unsuitable material for receptacle: aluminium.

Unsuitable material for receptacle: steel.

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).

Store away from metals.

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 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/m ³ , 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 cor	ntrols

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

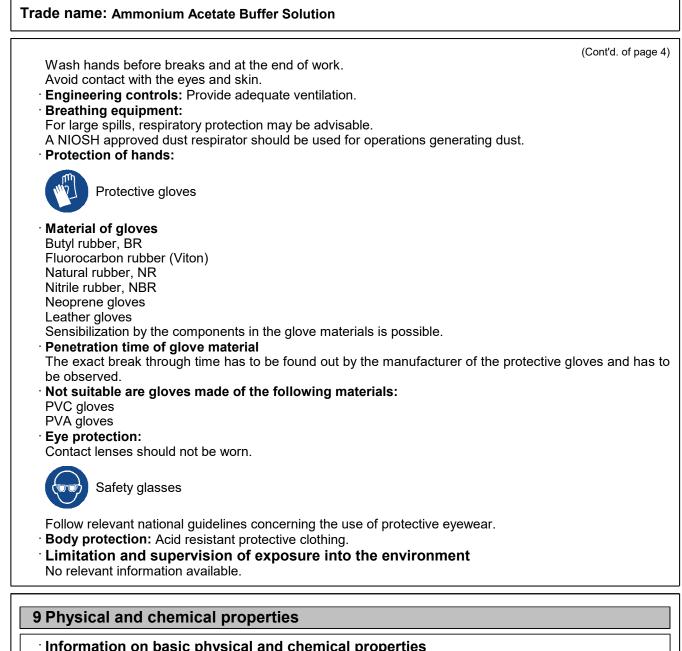
Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

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Information on basic physical Appearance:	• •	
Form:	Liquid	
Color:	Colorless	
· Odor:	Acidic	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
Melting point/Melting range:	Not determined.	
Boiling point/Boiling range:	100 °C (212 °F)	
		(Cont'd. on pa

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	(Cont'd. of page 5
Flash point:	Product not expected to support sustained combustion. Not applicable.
Flammability (solid, gaseous):	Not applicable.
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Danger of explosion:	Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.
Explosion limits	
Lower:	4 Vol %
Upper:	17 Vol %
Oxidizing properties:	Not determined.
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
Density at 20 °C (68 °F):	1.02 g/cm³ (8.51 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/wate	er): Not determined.
Viscosity	
Dynamic:	Not determined.
Kinematic:	Not determined.
Other information	No relevant information available.

10 Stability and reactivity

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

· 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

Reacts with alkali (lyes).

Corrosive action on metals.

Reacts with strong oxidizing agents.

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

Conditions to avoid

Keep ignition sources away - Do not smoke.

Store away from oxidizing agents. Excessive heat.

Incompatible materials

Metals.

Alkalis.

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ade name. Ammor		
Strong acids		(Cont'd. of page
	mposition products	
Under fire condition		
Carbon monoxide	ind carbon dioxide	
Ammonia		
1 Toxicological i	nformation	
· Information on t	oxicological effects	
· Acute toxicity: Ba	sed on available data, the class	sification criteria are not met.
· LD/LC50 values the	at are relevant for classifica	tion:
ATE (Acute Toxic	ty Estimate)	
Oral LD50	4515 mg/kg (rat)	
64-19-7 Acetic aci		
Oral LD50	3310 mg/kg (rat)	
Inhalative LC50/4h	11.4 mg/l (rat)	
Primary irritant ef	ect:	
	g caustic effect on skin and m	ucous membranes.
• On the eye: Strong		· · · · · · · · · · · · · · · · · · ·
	ed on available data, the class	
	I Agency for Research on C	ancer):
None of the ingred		
• NTP (National To		
None of the ingred	ents are listed.	
• •	tional Safety & Health Admi	nistration):
None of the ingred		
· Probable route(s)	of exposure:	
Ingestion.		
Inhalation.		
Eye contact. Skin contact.		
	te toxicity, irritation and cor	rosivity):
	burns and eye damage.	contry).
Harmful if inhaled.		
May be harmful if s	wallowed.	
Repeated dose to	kicity: No relevant information	available.
		a, the classification criteria are not met.
		assification criteria are not met.
· Reproductive tox		the classification criteria are not met.
	ourse Read on available date	, the classification criteria are not met.
STOT-single expo		
• STOT-single expo • STOT-repeated ex	posure: Based on available da	ata, the classification criteria are not met. classification criteria are not met.

12 Ecological information

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- [·] 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:

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

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Other adverse effects No relevant information available.

13 Disposal considerations

[·] Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. 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. Residual materials should be treated as hazardous.

[•] Uncleaned packagings

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

14 Transport information	
· UN-Number · DOT, ADR/RID/ADN, IMDG, IATA	UN2790
 · UN proper shipping name · DOT · ADR/RID/ADN, IMDG, IATA 	Acetic acid solution mixture ACETIC ACID SOLUTION mixture
Transport hazard class(es)	
· DOT	
· Class · Label	8 8
· ADR/RID/ADN	
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	(Cont'd. of pa
Class Label	8 (C3) 8
IMDG, IATA	
Class Label	8 8
Packing group DOT, ADR/RID/ADN, IMDG, IATA	11
Environmental hazards	Not applicable.
Special precautions for user Hazard identification number (Kemler code): EMS Number: Segregation groups	Warning: Corrosive substances 80 F-A,S-B Acids
Transport in bulk according to Annex II o MARPOL73/78 and the IBC Code	f Not applicable.
• •	ations/legislation specific for the substance
Safety, health and environmental regula mixture United States (USA)	ations/legislation specific for the substance
Safety, health and environmental regula mixture United States (USA) SARA	
Safety, health and environmental regula mixture United States (USA) SARA	
• Safety, health and environmental regula mixture • United States (USA) • SARA • Section 302 (extremely hazardous substances None of the ingredients are listed. • Section 313 (Specific toxic chemical listings):	s):
Safety, health and environmental regula mixture United States (USA) SARA Section 302 (extremely hazardous substances None of the ingredients are listed.	
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 Safety, health and environmental regula mixture United States (USA) SARA Section 302 (extremely hazardous substances None of the ingredients are listed. Section 313 (Specific toxic chemical listings): 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: None of the ingredients are listed. Chemicals known to cause developmental too None of the ingredients are listed. 	s):
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None of the ingredients are listed.

EPA (Environmental Protection Agency):

None of the ingredients are listed.

IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

Canadian Domestic Substances List (DSL):

None of the ingredients are listed.

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 Flam. Liq. 3: Flammable liquids - Category 3 Met. Corr.1: Corrosive to metals - Category 1 Skin Corr. 1A: Skin corrosion/irritation - Category 1A Skin Corr. 1B: Skin corrosion/irritation - Category 1B Eye Dam. 1: Serious eye damage/eye irritation - Category 1 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: ChemTel 1305 North Florida Avenue Tampa, Florida USA 33602-2902

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