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1 Identification

· Product identifier

· Trade name: Buffer Solution pH 7.00

Product code: BU9507-G

· 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@aguaphoenixsci.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

The substance 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: None.
- · Precautionary statements: None.
- Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

Chemical characterization: Substances

· Components:		
7732-18-5	Water	>99%
7778-77-0	potassium dihydrogenorthophosphate	0.68%
	Sodium hydroxide	0.12%
	♦ Met. Corr.1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318	
26628-22-8	sodium azide	<0.1%
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Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330 STOT SE 1, H370-H371; STOT RE 2, H373

Skin Irrit. 2, H315; Eye Irrit. 2A, H319

· 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: 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 eve 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:

Gastric or intestinal disorders when ingested.

Nausea in case of ingestion.

- · Danger: No relevant information available.
- · 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.
- For safety reasons unsuitable extinguishing agents: No relevant information available.
- · 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.
- Environmental precautions

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

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Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of the collected material according to regulations.

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

- Handling
- · Precautions for safe handling:

Use only in well ventilated areas.

Avoid splashes or spray in enclosed areas.

Prevent formation of aerosols.

- · 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 a cool location.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- · 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.

1310-73-2 Sodi	1310-73-2 Sodium hydroxide	
PEL (USA)	Long-term value: 2 mg/m³	
REL (USA)	Ceiling limit value: 2 mg/m³	
TLV (USA)	Ceiling limit value: 2 mg/m³	
EL (Canada)	Ceiling limit value: 2 mg/m³	
EV (Canada)	Ceiling limit value: 2 mg/m³	
LMPE (Mexico)	Ceiling limit value: 2 mg/m³	

- Exposure controls
- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

- · Engineering controls: Provide adequate ventilation.
- · Breathing equipment: Not required under normal conditions of use.
- · **Protection of hands:** Gloves not required under normal conditions of use.

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· Material of gloves

Material of glove

Butyl rubber, BR

Fluorocarbon rubber (Viton)

Nitrile rubber, NBR Natural rubber, NR

Neoprene gloves

Sensibilization by the components in the glove materials is possible.

Latex, nitrile or neoprene gloves are recommended.

· Eye protection:



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

- · Body protection: Protective work clothing
- · Limitation and supervision of exposure into the environment No special requirements.
- · Risk management measures No special requirements.

Form: Color: Color: Colorless dor: Odorless Not determined. H-value: Politing point/Melting range: Politing point/Boiling r	Physical and chemical prope	erties	
Form: Color: Color: Colorless dor: Odorless Not determined. H-value: Politing point/Melting range: Politing point/Boiling r	Information on basic physical a	and chemical properties	
Color: dor: Colorless dor threshold: Not determined. Not determined. Not determined. O °C (32 °F) Folling point/Boiling range: Not applicable. Independent of explosion: Product does not present an explosion hazard. Not determined.	Appearance:		
dor: dor threshold: Not determined. Not determined. Not determined. O °C (32 °F) polling point/Melting range: 100-105 °C (212-157 °F) The product is not flammable. Into-ignition temperature: Not determined. Not determined. Not determined. Not determined. Not determined. Product does not present an explosion hazard. Into-ignition limits Not determined. Not determined. Not determined.	Form:		
dor threshold: Not determined. Not determined. O °C (32 °F) oiling point/Melting range: 100-105 °C (212-157 °F) ash point: The product is not flammable. ammability (solid, gaseous): Not applicable. Not determined. Not determined. Product does not present an explosion hazard. Applosion limits Lower: Not determined.	Color:		
Al-value: Pelting point/Melting range: Poiling point/Boiling range: Poilin	Odor:	G 4.5.1.555	
elting point/Melting range: o °C (32 °F) 100-105 °C (212-157 °F) The product is not flammable. ammability (solid, gaseous): Not applicable. Ito-ignition temperature: Not determined. Product does not present an explosion hazard. splosion limits Lower: Not determined.	Odor threshold:	Not determined.	
ash point: The product is not flammable. Not applicable. Not determined. Product does not present an explosion hazard. Not determined. Not determined.	pH-value:	Not determined.	
ash point: The product is not flammable. Not applicable. Not determined. Product does not present an explosion hazard. Not determined. Not determined.	Melting point/Melting range:	0 °C (32 °F)	
ammability (solid, gaseous): Not applicable. Not determined. Product does not present an explosion hazard. Replosion limits Lower: Not determined.	Boiling point/Boiling range:	100-105 °C (212-157 °F)	
Anger of explosion: Applosion limits Lower: Not determined. Not determined. Not determined. Not determined. Not determined.	Flash point:	The product is not flammable.	
ecomposition temperature: In Anger of explosion: In Anger of explosion: In Anger of explosion: In Anger of explosion: In Anger of explosion hazard. In Anger of explosion: In	Flammability (solid, gaseous):	Not applicable.	
anger of explosion: Product does not present an explosion hazard. xplosion limits Lower: Not determined.	Auto-ignition temperature:	Not determined.	
cplosion limits Lower: Not determined.	Decomposition temperature:	Not determined.	
Lower: Not determined.	Danger of explosion:	Product does not present an explosion hazard.	
	Explosion limits		
	Lower:	Not determined.	
Upper: Not determined.	Upper:	Not determined.	
kidizing properties: Not determined.	Oxidizing properties:	Not determined.	
apor pressure: Not determined.	Vapor pressure:	Not determined.	
ensity at 20 °C (68 °F): >1 g/cm³ (>8.35 lbs/gal)	Density at 20 °C (68 °F):	>1 g/cm³ (>8.35 lbs/gal)	
elative density: Not determined.	Relative density:	Not determined.	
apor density: Not determined.	Vapor density:	Not determined.	
vaporation rate: Not determined.	Evaporation rate:	Not determined.	
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· Solubility in / Miscibility with

Water: Fully miscible.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity

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.

- · Conditions to avoid Excessive heat.
- · Incompatible materials No relevant information available.
- · 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: None.
- · Primary irritant effect:
- · On the skin: Based on available data, the classification criteria are not met.
- · On the eye: Based on available data, the classification criteria are not met.
- · Sensitization: Based on available data, the classification criteria are not met.
- IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

· 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): No relevant information available.

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- · 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: 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:

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:

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.

- Uncleaned packagings
- Recommendation: Disposal must be made according to official regulations.

4 Transport information		
· 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 · Class	Not regulated.	
· Packing group · DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
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· Environmental hazards	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex II of		
MARPOL73/78 and the IBC Code	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):

None of the ingredients are listed.

 TSCA (Toxic Subs 	stances Control Act)
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•	,
7778-77-0	potassium dihydrogenorthophosphate
1310-73-2	Sodium hydroxide
26628-22-8	sodium azide
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):

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 (Cont'd. on page 8)

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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

Met. Corr.1: Corrosive to metals - Category 1

Acute Tox. 2: Acute toxicity - Category 2

Acute Tox. 1: Acute toxicity – Category 1

Skin Corr. 1A: Skin corrosion/irritation - Category 1A

Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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

STOT SE 1: Specific target organ toxicity (single exposure) - Category 1

STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2

· 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