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

Printing date: March 01, 2019

Revision: February 25, 2019

Identifica	ation		
· Product i	dentifier		
	e: Fluoride Standard Citra ode: FS3101SS	ate Buffer, 100 ppm	
· Recomme	nded use and restriction o nded use: Laboratory chem ns on use: No relevant infor	nicals	
Manufactu AquaPhoer 860 Gitts F Hanover, F Phone: (71 Toll-Free: (info@aqua Emergenc ChemTel Ir (800)255-3	A 17331 7)632-1291 866)632-1291 phoenixsci.com y telephone number:	ety Data Sheet	
	· /		
	identification	or mixture	
· Classifica	ation of the substance o	or mixture lous according to the Globally Harmonized System (GHS)	
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· 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.

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4 First-aid measures Description of first aid measures · 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: 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. Methaemoglobinaemia · Danger: No relevant information available. · Indication of any immediate medical attention and special treatment needed: No relevant information available.

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 Substance/product is oxidizing when dry.
- · 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.

For large spills, wear protective clothing.

· Methods and material for containment and cleaning up

Wipe up small spills with paper towel and discard.

For large spills, absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders).

Substance/product is oxidizing when dry.

- 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.

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7 Handling and storage

· Handling

· Precautions for safe handling:

Use only in well ventilated areas.

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

• Information about protection against explosions and fires: Substance/product is oxidizing when dry.

· Conditions for safe storage, including any incompatibilities

- · Requirements to be met by storerooms and receptacles: Avoid storage near extreme heat.
- Information about storage in one common storage facility: Do not store together with acids. Store away from foodstuffs.
- Further information about storage conditions: Prevent from drying out.
- · 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

· 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:



Protective gloves

• Material of gloves Nitrile rubber, NBR Neoprene gloves Butyl rubber, BR Natural rubber, NR

Sensibilization by the components in the glove materials is possible.

· Eye protection:



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

- **Body protection:** Protection may be required for spills.
- · Limitation and supervision of exposure into the environment No special requirements.

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· Risk management measures No special requirements.

9 Physical and chemical properties

 Information on basic physical and chemical properties Appearance: Form: Liquid Color: Colorless Odor: Odorless Odor threshold: Not determined. pH-value: Not determined. Melting point/Melting range: Not determined. Boiling point/Boiling range: 100-105 °C (212-221 °F) Flash point: The product is not flammable. Flammability (solid, gaseous): Not applicable. Auto-ignition temperature: Not determined. Decomposition temperature: Not determined. Explosion limits Lower: Not determined. Ot determined. Explosion limits Substance/product is oxidizing when dry. Vapor pressure: Not determined. Oxidizing properties: Substance/product is oxidizing when dry.
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• Density at 20 °C (68 °F): 1.01-1.03 g/cm ³ (8.43-8.6 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.
· 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:

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No decomposition if used and stored according to specifications. • Possibility of hazardous reactions

Substance/product is oxidizing when dry.

Reacts with strong acids and alkali.

Hazardous gases may be released if heated above the decomposition point.

· Conditions to avoid No relevant information available.

• Incompatible materials Oxidizers, strong bases, strong acids

• Hazardous decomposition products Under fire conditions only:

Carbon monoxide and carbon dioxide Nitrogen oxides

11 Toxicological information

· Information on toxicological effects

- Acute toxicity: Based on available data, the classification criteria are not met.
- · 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.
- 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.

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- · 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.

- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB:** Not applicable.
- · Other adverse effects No relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Smaller quantities can be disposed of with household waste.

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 Class	Not regulated.	
Packing group DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
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

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• •	health and environmental regulations/legislation specific for the substance
	tates (USA)
· SARA	
Section 3	302 (extremely hazardous substances):
None of t	he ingredients are listed.
Section 3	355 (extremely hazardous substances):
None of t	he ingredients are listed.
	313 (Specific toxic chemical listings):
7757-79-	1 Potassium nitrate
TSCA (T	oxic Substances Control Act)
All ingred	lients are listed.
Proposit	ion 65 (California)
- Chemica	Is known to cause cancer:
None of t	he ingredients are listed.
· Chemica	Is known to cause developmental toxicity for females:
None of t	he ingredients are listed.
· Chemica	Is known to cause developmental toxicity for males:
None of t	he ingredients are listed.
- Chemica	Is known to cause developmental toxicity:
None of t	he ingredients are listed.
EPA (Env	vironmental Protection Agency):
None of t	he ingredients are listed.
· IARC (Int	ternational Agency for Research on Cancer):
None of t	he ingredients are listed.
· Canadia	n Domestic Substances List (DSL) (Substances not 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
 PBT: Persistant, Bio-accumulable, Toxic
 vPvB: very Persistent and very Bioaccumulative
 OSHA: Occupational Safety & Health Administration
 Ox. Sol. 2: Oxidizing solids – Category 2
 Acute Tox. 3: Acute toxicity – Category 3

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Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A · 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 Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com