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| 1 Identification |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| · Product identifier |
| Trade name: <u>Fluoride Std,0.5mg/L(ppm)</u> Product code: FS5905SS |
| 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 |

2 Hazard(s) identification

[•] Classification of the substance or mixture

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

- ⁻ Label elements
- · GHS label elements Not regulated.
- · Hazard pictograms: None.
- · Signal word: None.
- · Hazard statements: None.
- · Precautionary statements: None.

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

· Chemical characterization: Mixtures

| · Componen | ts: | |
|------------|------------------------------------------------------------------------------------------|--------------|
| | sodium fluoride | <0.01% |
| | Acute Tox. 3, H301 Skin Irrit. 2, H315; Eye Irrit. 2A, H319 | |
| | Sodium hydroxide | <5% |
| | Wet. Corr.1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318 | |
| | (Cont'd | . on page 2) |

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| (Cont'd | . of page 1) |
|----------------------------------------------------------------------------------------|--------------|
| 64-19-7 Acetic acid | <6% |
| Flam. Liq. 3, H226 Met. Corr.1, H290; Skin Corr. 1A, H314 | |
| 13291-61-7 trans-cyclohexane-1,2-dinitrilotetraacetic acid | <1% |
| 🚯 Eye Irrit. 2A, H319 | |
| 7647-14-5 Sodium chloride | <6% |
| 7732-18-5 Water | >82% |
| · Additional information: | |

· 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

• 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.

· Danger: Causes mild skin irritation.

· 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

During heating or in case of fire poisonous gases are produced.

• 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.

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(Cont'd. of page 2)

For large spills, wear protective clothing.

• Environmental precautions No special measures required.

[•] Methods and material for containment and cleaning up

Wipe up small spills with paper towel and discard.

For larger spills, add sawdust, chalk or other inert binding material, then sweep up and discard.

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: No special measures required.

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: No special requirements.
- **Information about storage in one common storage facility:** Store away from foodstuffs.

Do not store together with alkalis (caustic solutions).

Store away from oxidizing agents.

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/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 |
| ` | | (Cont'd. on page 4) |

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| | (Cont'd. of page 3 |
|-------------------------------------------------------------------------------|--------------------|
| 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: Not required under normal conditions of use. | |
| Material of gloves | |
| Nitrile rubber, NBR | |
| Neoprene gloves | |
| Butyl rubber, BR | |
| Natural rubber, NR | |
| Sensibilization by the components in the glove materials is possible. | |
| Not suitable are gloves made of the following materials: PVA gloves | |
| 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.

· Risk management measures No special requirements.

| Information on basic physical a | and chemical properties | |
|---------------------------------|-----------------------------------------------|--|
| Appearance: | | |
| Form: | Liquid | |
| Color: | Colorless | |
| Odor: | Characteristic | |
| Odor threshold: | Not determined. | |
| pH-value at 20 °C (68 °F): | 5.3-5.8 | |
| 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: | Non-oxidizing. | |

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| | | (Cont'd. of page |
|----------------------------------|------------------------------------|------------------|
| Vapor pressure: | Not determined. | |
| Density: | | |
| Relative density: | Not determined. | |
| Vapor density: | Not determined. | |
| Evaporation rate: | Not determined. | |
| Solubility in / Miscibility with | | |
| Water: | Fully miscible. | |
| Partition coefficient (n-octand | ol/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
- Reacts with alkali (lyes).
- Reacts with strong oxidizing agents.
- Toxic fumes may be released if heated above the decomposition point.
- Conditions to avoid No relevant information available.
- [·] Incompatible materials
- Alkalis.
- Oxidizers

[•] Hazardous decomposition products

- Under fire conditions only:
- Carbon monoxide and carbon dioxide
- Chlorine compounds
- 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:
- Causes mild skin irritation.
- 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.

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· 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): Causes mild skin 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: 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:

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.

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(Cont'd. of page 6)

| 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 | ll 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 Substances Control Act)

All ingredients are listed or exempt.

· 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.

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· 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. Lig. 3: Flammable liquids - Category 3 Met. Corr.1: Corrosive to metals – Category 1 Acute Tox. 3: Acute toxicity – Category 3 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 · 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 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

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