Printing date 05/09/2023

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## **1** Identification

- · Product identifier
- Trade name: Fluoride Standard 100.0 ppm Certified W/TISAB II For (6210CL)
- · Article number: HON112
- Details of the supplier of the safety data sheet • Manufacturer/Supplier: Aqua Solutions, Inc.

6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586

- Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org • Emergency telephone number:
- *Chemtrec:* 800-424-9300 *Canutec:* 613-996-6666

## **2** Hazard(s) identification

· Classification of the substance or mixture



Flammable Liquids 3 H226 Flammable liquid and vapor.



Sensitization - Skin 1 H317 May cause an allergic skin reaction.

· Label elements

- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



· Signal word Warning

Hazard-determining components of labeling: Acetic Acid, Glacial
Hazard statements Flammable liquid and vapor. May cause an allergic skin reaction.
Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

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Take precautionary measures against static discharge.	(Contd. of page 1)
Avoid breathing dust/fume/gas/mist/vapors/spray	
Contaminated work clothing must not be allowed out of the workplace.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	
If skin irritation or rash occurs: Get medical advice/attention.	
Specific treatment (see on this label).	
Wash contaminated clothing before reuse.	
In case of fire: Use CO2, powder or water spray to extinguish.	
Store in a well-ventilated place. Keep cool.	
Dispose of contents/container in accordance with local/regional/national/international regulation	S.
· Classification system:	
· NFPÅ ratings (scale 0 - 4)	
$\begin{array}{c} 1 \\ 0 \\ $	
· HMIS-ratings (scale 0 - 4)	
<b>HEALTH O</b> $Health = 0$	
FIRE 1 Fire = 1	
$\begin{array}{c} \text{REACTIVITY} \hline 0 \end{array}  Reactivity = 0 \end{array}$	
REACTIVITY OF REACTIVITY OF	
· Other hazards	
· Results of PBT and vPvB assessment	
· <b>PBT:</b> Not applicable.	
· <b>vPvB:</b> Not applicable.	

# 3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous comp		
CAS: 64-19-7 A	cetic Acid, Glacial	2.79%
· Table of Nonhazardous Ingredients		
CAS: 7732-18-5		90.791%
CAS: 7647-14-5	Sodium Chloride	5.85%
CAS: 6132-04-3	Sodium Citrate Dihydrate	0.558%
CAS: 7681-49-4	Sodium Fluoride	0.011%

## 4 First-aid measures

· Description of first aid measures

· General information: Immediately remove any clothing soiled by the product.

• After inhalation:

- Supply fresh air and to be sure call for a doctor.
- In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water.

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- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

# **5** *Fire-fighting measures*

- · Extinguishing media
- · Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

#### **6** Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. • Environmental precautions: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water. • Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation. · 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. · Protective Action Criteria for Chemicals · PAC-1: CAS: 64-19-7 Acetic Acid, Glacial 5 ppm CAS: 7681-49-4 Sodium Fluoride 17 mg/m<sup>3</sup> · PAC-2: CAS: 64-19-7 Acetic Acid, Glacial 35 ppm CAS: 7681-49-4 Sodium Fluoride 90 mg/m<sup>3</sup> · PAC-3:
- CAS: 64-19-7
   Acetic Acid, Glacial
   250 ppm

   CAS: 7681-49-4
   Sodium Fluoride
   1,100 mg/m<sup>3</sup>

#### 7 Handling and storage

- · Handling:
- · Precautions for safe handling
- *Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.*

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- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see section 7.

· Control parameters

#### · Components with limit values that require monitoring at the workplace:

#### CAS: 64-19-7 Acetic Acid, Glacial

- PEL Long-term value: 25 mg/m<sup>3</sup>, 10 ppm
- REL Short-term value: 37 mg/m<sup>3</sup>, 15 ppm Long-term value: 25 mg/m<sup>3</sup>, 10 ppm
- TLV Short-term value: 15 ppm Long-term value: 10 ppm

• Additional information: The lists that were valid during the creation were used as basis.

- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.
- Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

#### • Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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• Eye protection:



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Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and c	hemical properties
General Information	
Appearance: Form:	Limid
Form: Color:	Liquid Clear
Odor:	Mild
Odor threshold:	Not determined.
<i>pH-value at 20 °C (68 °F):</i>	5.3
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C (212 °F)
Flash point:	40 °C (104 °F)
Flammability (solid, gaseous):	Flammable.
Decomposition temperature:	Not determined.
Ignition temperature:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
Density at 20 °C (68 °F):	1.03855 g/cm <sup>3</sup> (8.6667 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	<b>r</b> ): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	2.8 %
Water:	90.8 %

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VOC content:	2.79 % 20.0 c/l (0.24 lb/ccl	
	29.0 g/l / 0.24 lb/gal	
Solids content:	6.5 %	
• Other information	No further relevant information available.	

#### **10 Stability and reactivity**

• *Reactivity* No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- *Conditions to avoid* No further relevant information available.
- Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

#### **11** Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

#### ATE (Acute Toxicity Estimate)

Dermal LD50 37,994 mg/kg (rabbit)

- · Primary irritant effect:
- on the skin: No irritant effect.
- $\cdot$  on the eye: No irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

· Carcinogenic categories

#### · IARC (International Agency for Research on Cancer)

CAS: 7681-49-4 Sodium Fluoride

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

## **12 Ecological information**

· Toxicity

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.

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#### Trade name: Fluoride Standard 100.0 ppm Certified W/TISAB II For (6210CL)

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· Additional ecological information:

· General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

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 further 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.

- · 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, IMDG, IATA	Not regulated
· UN proper shipping name	
· DOŤ, IMDG, IATĂ	Not regulated
· Transport hazard class(es)	
· DOT, ADN, IMDG, IATA	
· Class	Not regulated
· Packing group	
· DOT, IMDG, IATA	Not regulated
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II o	f
MARPOL73/78 and the IBC Code	Not applicable.
· UN "Model Regulation":	Not regulated

## **15 Regulatory information**

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

• Sara

 $\cdot$  Section 355 (extremely hazardous substances):

None of the ingredients is listed.

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Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
· TSCA (Toxic Substances Control Act):	
Water	ACTIVI
Sodium Chloride	ACTIVI
Acetic Acid, Glacial	ACTIVI
Sodium Fluoride	ACTIVI
Hazardous Air Pollutants	·
None of the ingredients is listed.	
Proposition 65	
Chemicals known to cause cancer:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	

#### · Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

CAS: 7681-49-4 Sodium Fluoride

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms* 



· Signal word Warning

Hazard-determining components of labeling: Acetic Acid, Glacial
Hazard statements Flammable liquid and vapor. May cause an allergic skin reaction.
Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. A4

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Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see on this label). Wash contaminated clothing before reuse. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/regional/national/international regulations. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **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.

- · Department issuing SDS: Environment protection department.
- · Contact:
- · Date of preparation / last revision Revision 1.0 05/09/2023, reviewed SDS for accuracy. STN 05/09/2023 · Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit
- **REL:** Recommended Exposure Limit Flammable Liquids 3: Flammable liquids – Category 3 Sensitization - Skin 1: Skin sensitisation - Category 1
- \* Data compared to the previous version altered.