Printing date 08/16/2024

Reviewed on 08/16/2024

# **1** Identification

- · Product identifier
- Trade name: <u>CAF2 Standard 3.0 PPM</u>
- · Article number: HON171
- · 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. Take precautionary measures against static discharge.

(Contd. on page 2)

US

Printing date 08/16/2024

Reviewed on 08/16/2024

Trade name: CAF2 Standard 3.0 PPM

		Contd. of page 1)
	ust/fume/gas/mist/vapors/spray	
	rk clothing must not be allowed out of the workplace.	
	loves/protective clothing/eye protection/face protection.	
	l a poison center/doctor if you feel unwell. ): Take off immediately all contaminated clothing. Rinse skin with water/shower.	
	i: Take off immediately all contaminated clotning. Kinse skin with water/shower. cautiously with water for several minutes. Remove contact lenses, if present an	d easy to do
Continue rinsing.	caulously with water for several minutes. Remove contact tenses, if present an	<i>u eusy 10 u0.</i>
	e CO2, powder or water spray to extinguish.	
Store locked up.		
Dispose of content	ts/container in accordance with local/regional/national/international regulations.	
· Classification syst		
· NFPA ratings (sc	ale 0 - 4)	
Hea	alth = 0	
	z = 2	
Rea	ctivity = 0	
· HMIS-ratings (sc	ale 0 - 4)	
HEALTH 0 He	aalth = 0	
110	a a a b b c c c c c c c c c c c c c c c	
	activity = 0	
• Other hazards		
-	nd vPvB assessment	
• <b>PBT:</b> Not applica		
• <b>vPvB:</b> Not applica	ıble.	
3 Composition/in	<i>iformation on ingredients</i>	
5 Composition/1	ijormation on ingreatents	
	erization: Mixtures	
• <b>Description:</b> Mixt	ure of the substances listed below with nonhazardous additions.	
· Dangerous compo		
CAS: 64-19-7 Ace	etic Acid, Glacial	2.79%
• Table of Nonhaza	rdous Ingredients	
CAS: 7732-18-5	Water	89.757%
CAS: 7647-14-5	Sodium Chloride	5.85%
CAS: 7647-01-0	Hydrochloric Acid	0.919%
CAS: 6132-04-3	Sodium Citrate Dihydrate	0.558%
CAS: 10101-41-4	Calcium Sulfate, Powder	0.123%
CAS: 7681-49-4	Sodium Fluoride	0.003%

# 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. Then consult a doctor.

(Contd. on page 3)

US

Printing date 08/16/2024

Reviewed on 08/16/2024

(Contd. of page 2)

#### Trade name: CAF2 Standard 3.0 PPM

- 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

	equipment. Keep unprotected persons away.	
Environmental p		
Dilute with plent		
	enter sewers/ surface or ground water.	
	terial for containment and cleaning up:	
	id-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
	nated material as waste according to section 13.	
Ensure adequate		
Reference to oth		
	information on safe handling.	
	information on personal protection equipment.	
	r disposal information.	
	1 Criteria for Chemicals	
<i>PAC-1:</i>		
CAS: 64-19-7	Acetic Acid, Glacial	5 ppm
CAS: 7647-01-0	Hydrochloric Acid	1.8 ppm
CAS: 7681-49-4	Sodium Fluoride	17 mg/m <sup>3</sup>
<i>PAC-2:</i>		
CAS: 64-19-7	Acetic Acid, Glacial	35 ppm
CAS: 7647-01-0	Hydrochloric Acid	22 ppm
CAS: 7681-49-4	Sodium Fluoride	90 mg/m <sup>3</sup>
<i>PAC-3:</i>		
CAS: 64-19-7	Acetic Acid, Glacial	250 ppm
CAS: 7647-01-0	Hydrochloric Acid	100 ppm

(Contd. on page 4)

Printing date 08/16/2024

Reviewed on 08/16/2024

#### Trade name: CAF2 Standard 3.0 PPM

(Contd. of page 3)

### 7 Handling and storage

#### · Handling:

- *Precautions for safe handling* Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- 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  $\cdot$  *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.

(Contd. on page 5)

Printing date 08/16/2024

Reviewed on 08/16/2024

(Contd. of page 4)

US

#### Trade name: CAF2 Standard 3.0 PPM

• **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.

• Eye protection:



\*

Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and	chemical properties
· General Information	inclined properties
Appearance:	
Form:	Liquid
Color:	Clear water white
· Odor:	Odorless
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· 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):	1.05446 g/cm <sup>3</sup> (8.79947 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/wat	er): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	2.8 %

Printing date 08/16/2024

Reviewed on 08/16/2024

Trade name: CAF2 Standard 3.0 PPM

	(Contd. of page 5)
89.8 %	
2.79 %	
29.4 g/l / 0.25 lb/gal	
6.5 %	
No further relevant information available.	
	2.79 % 29.4 g/l / 0.25 lb/gal 6.5 %

# **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.
- 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.

(Contd. on page 7)

3

US

Printing date 08/16/2024

Reviewed on 08/16/2024

(Contd. of page 6)

Trade name: CAF2 Standard 3.0 PPM

• 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.

Transport information	
UN-Number DOT, IMDG, IATA	Not regulated
UN proper shipping name DOT, IMDG, IATA	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 A MARPOL73/78 and the IBC Code	II of 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

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

• Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

(Contd. on page 8)

US

Printing date 08/16/2024

Reviewed on 08/16/2024

#### Trade name: CAF2 Standard 3.0 PPM

TSCA (Toxic Substances Control Act):	
Water	ACTIV
Sodium Chloride	ACTIV
Acetic Acid, Glacial	ACTIV
Hydrochloric Acid	ACTIV
Sodium Fluoride	ACTIV
Hazardous Air Pollutants	
CAS: 7647-01-0 Hydrochloric Acid	
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	P
NIOSH-Ca (National Institute for Occupational Safety and Health)	I
None of the ingredients is listed.	
GHS label elements The product is classified and labeled according to the Globally	v Harmonized System (GHS)



· 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. Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing must not be allowed out of the workplace.

Printing date 08/16/2024

Reviewed on 08/16/2024

#### Trade name: CAF2 Standard 3.0 PPM

(Contd. of page 8)

Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Call a poison center/doctor if you feel unwell. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of fire: Use CO2, powder or water spray to extinguish. Store locked up.

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:

• Date of preparation / last revision Revision 1.2, 08-16-2024: Reviewed SDS for accuracy. STN/GW

08/16/2024 / 1.1 • *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.