Printing date 02/25/2020

Reviewed on 02/25/2020

1 Identification

- · Product identifier
- · Trade name: ICP Standard 50.0 ppm Ea (F,Cl,NO3,PO4,SO4) Aqueous Solution
- Article number: BP219
- · 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 sherman@aquasolutions.org · Emergency telephone number:

Chemtrec: 800-424-9300 Canutec: 613-996-6666

2 Hazard(s) identification



- · Classification of the substance or mixture The product is not classified, according to the Globally Harmonized System (GHS).
- · Label elements
- · GHS label elements Not Applicable
- · Hazard pictograms Not Applicable
- · Signal word Not Applicable
- · Hazard statements Not Applicable
- · Precautionary statements
- If swallowed: Call a poison center/doctor if you feel unwell.
- If on skin: Wash with plenty of water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 0Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH 0 Health = 00 Fire = 0**REACTIVITY** O Reactivity = 0

· Other hazards

FIRE

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

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3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous components: Not Applicable

| · Table of Nonhazardous Ingredients | | | |
|-------------------------------------|------------------------------------|----------|--|
| CAS: 7681-49-4 | Sodium Fluoride | 0.011% | |
| CAS: 7647-14-5 | Sodium Chloride | 0.00824% | |
| CAS: 7558-79-4 | Sodium Phosphate Dibasic Anhydrous | 0.00748% | |
| | Sodium Sulfate Anhydrous | 0.00739% | |
| CAS: 7631-99-4 | | 0.00685% | |
| CAS: 7732-18-5 | Water | 99.959% | |

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.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- 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: Use fire fighting measures that suit the environment.
- 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 Not required.
- Environmental precautions: No special measures required.

• *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 item 13.

- · 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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| · Protective Action | Criteria for Chemicals | (Contd. of page 2) |
|---------------------|--------------------------|-------------------------|
| · PAC-1: | | |
| CAS: 7681-49-4 | Sodium Fluoride | 17 mg/m ³ |
| CAS: 7757-82-6 | Sodium Sulfate Anhydrous | 9.8 mg/m ³ |
| CAS: 7631-99-4 | Sodium Nitrate | 4.1 mg/m ³ |
| · PAC-2: | | |
| CAS: 7681-49-4 | Sodium Fluoride | 90 mg/m ³ |
| CAS: 7757-82-6 | Sodium Sulfate Anhydrous | 110 mg/m ³ |
| CAS: 7631-99-4 | Sodium Nitrate | 45 mg/m ³ |
| · PAC-3: | | |
| CAS: 7681-49-4 | Sodium Fluoride | 1,100 mg/m ³ |
| CAS: 7757-82-6 | Sodium Sulfate Anhydrous | 650 mg/m ³ |
| CAS: 7631-99-4 | Sodium Nitrate | 270 mg/m ³ |

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
- · 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 item 7.
- · 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.

- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed.
- · Breathing equipment: Not required.
- · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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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.

• *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: Goggles recommended during refilling.

· Body protection: Protective work clothing

| Information on basic physical and c | hemical properties | |
|---------------------------------------|---|--|
| General Information | | |
| 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: | Not applicable. | |
| Flammability (solid, gaseous): | Not applicable. | |
| Decomposition temperature: | Not determined. | |
| Auto igniting: | Product is not selfigniting. | |
| Danger of explosion: | Product does not present an explosion hazard. | |
| 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): | 1.00018 g/cm ³ (8.3465 lbs/gal) | |
| Relative density | Not determined. | |
| Vapor density | Not determined. | |
| Evaporation rate | Not determined. | |
| Solubility in / Miscibility with | | |
| Water: | Not miscible or difficult to mix. | |
| Partition coefficient (n-octanol/wate | r): Not determined. | |
| Viscosity: | | |
| Dynamic: | Not determined. | |

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| | | (Contd. of page 4 |
|---------------------|--|-------------------|
| Kinematic: | Not determined. | |
| · Solvent content: | | |
| Water: | 100.0 % | |
| VOC content: | 0.00~% | |
| | 0.0 g/l / 0.00 lb/gal | |
| Solids content: | 0.0 % | |
| • 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.

 \cdot 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:
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· 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.

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Trade name: ICP Standard 50.0 ppm Ea (F,Cl,NO3,PO4,SO4) Aqueous Solution

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- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- General notes: Not hazardous for water.
- · 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: Smaller quantities can be disposed of with household waste.
- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

| UN-Number | | |
|--------------------------------------|-----------------|--|
| DOT, IMDG, IATA | Not regulated | |
| UN proper shipping name | | |
| DOT, IATA | Not regulated | |
| IMDG | Not Regulated | |
| | 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 of | |
| MARPOL73/78 and the IBC Code | Not applicable. | |

15 Regulatory information

- \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara
- Section 355 (extremely hazardous substances):
- None of the ingredients is listed.
- Section 313 (Specific toxic chemical listings):
- None of the ingredients is listed.

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| TSCA (Toxic Substances Control Act): | (Contd. of page |
|--|--------------------------------|
| Sodium Fluoride | ACTIVI |
| Sodium Fluoride Sodium Chloride | ACTIVE |
| | ACTIVE |
| Sodium Phosphate Dibasic Anhydrous | ACTIVE |
| Sodium Sulfate Anhydrous | ACTIVE |
| Sodium Nitrate | ACTIVE |
| Water | ACTIVE |
| 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 established by ACGIH) | |
| CAS: 7681-49-4 Sodium Fluoride | A |
| NIOSH-Ca (National Institute for Occupational Safety and Health) | |
| None of the ingredients is listed. | |
| GHS label elements Not Applicable | |
| Hazard pictograms Not Applicable | |
| Signal word Not Applicable | |
| Hazard statements Not Applicable | |
| Precautionary statements | |
| If swallowed: Call a poison center/doctor if you feel unwell. | |
| If on skin: Wash with plenty of water. | |
| If in eyes: Rinse cautiously with water for several minutes. Remove contact len | uses, if present and easy to d |
| Continue rinsing. | |
| Store locked up. | |
| Dispose of contents/container in accordance with local/regional/national/international | |
| Chemical safety assessment: A Chemical Safety Assessment has not been carried o | put. |

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:

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| • Date of preparation / last revision Revision 0.0, 02-24-2020: Creation date for SDS. STN 02/25/2020 / - | |
|---|--|
| Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists 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) 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 | |

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