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#### **1** Identification

- · Product identifier
- Trade name: <u>Anion Mix 1000 ppm Each</u> Cl,NO3,PO4,SO4,Br,I
- · Article number: ANI010
- 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



Toxic to Reproduction 2 H361 Suspected of damaging fertility or the unborn child.

· Label elements

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



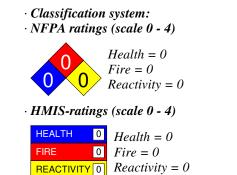
· Signal word Warning · Hazard-determining components of labeling: Sodium Bromide · Hazard statements Suspected of damaging fertility or the unborn child. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. 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. (Contd. on page 2)

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#### · Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

#### 3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

| · Dangerous components:             |                                    |        |
|-------------------------------------|------------------------------------|--------|
| CAS: 7647-15-6                      | Sodium Bromide                     | 0.129% |
| · Table of Nonhazardous Ingredients |                                    |        |
| CAS: 7732-18-5                      |                                    | 99.13% |
|                                     | Sodium Chloride                    | 0.165% |
|                                     | Potassium Nitrate                  | 0.163% |
|                                     | Sodium Phosphate Dibasic Anhydrous | 0.149% |
|                                     | Sodium Sulfate Anhydrous           | 0.148% |
| CAS: 7681-82-5                      | Sodium Iodide                      | 0.118% |

#### 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.

- 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.

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· 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 section 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.

· Protective Action Criteria for Chemicals

### • PAC-1:

| me n           |                          |                       |
|----------------|--------------------------|-----------------------|
| CAS: 7757-79-1 | Potassium Nitrate        | 9 mg/m <sup>3</sup>   |
|                | Sodium Sulfate Anhydrous | 9.8 mg/m <sup>3</sup> |
| CAS: 7647-15-6 | Sodium Bromide           | 12 mg/m <sup>3</sup>  |
| CAS: 7681-82-5 | Sodium Iodide            | 13 mg/m <sup>3</sup>  |
| · PAC-2:       |                          |                       |
| CAS: 7757-79-1 | Potassium Nitrate        | 100 mg/m³             |
| CAS: 7757-82-6 | Sodium Sulfate Anhydrous | 110 mg/m³             |
| CAS: 7647-15-6 | Sodium Bromide           | 130 ma/m <sup>3</sup> |

| CAS: /04/-15-0 | Soaium Bromiae           | $130 \text{ mg/m}^3$ |
|----------------|--------------------------|----------------------|
| CAS: 7681-82-5 | Sodium Iodide            | 140 mg/m³            |
| · PAC-3:       |                          |                      |
| CAS: 7757-79-1 | Potassium Nitrate        | 600 mg/m³            |
| CAS: 7757-82-6 | Sodium Sulfate Anhydrous | 650 mg/m³            |
|                |                          | 830 mg/m³            |
| CAS: 7681-82-5 | Sodium Iodide            | 860 mg/m³            |

#### 7 Handling and storage

· Handling:

- · Precautions for safe handling Open and handle receptacle with care.
- · Information about protection against explosions and fires: Keep respiratory protective device available.
- · 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.

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#### 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:

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: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Store protective clothing separately.
- **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. 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.
- · Eye protection: Goggles recommended during refilling.
- · Body protection: Protective work clothing

| Information on basic physical and chemical properties<br>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:   | 0 °C (32 °F)      |  |
| Boiling point/Boiling range:   | 100 °C (212 °F)   |  |

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|   | (Contd.                                       | of page |
|---|---|---------|
| · Flash point:                          | Not applicable.                               |         |
| · Flammability (solid, gaseous):        | Not applicable.                               |         |
| · Decomposition temperature:            | Not determined.                               |         |
| · Ignition temperature:                 | 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):             | 1.00201 g/cm <sup>3</sup> (8.36177 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 | e <b>r):</b> Not determined.                  |         |
| · Viscosity:                            |   |         |
| Dynamic:                                | Not determined.                               |         |
| Kinematic:                              | Not determined.                               |         |
| · Solvent content:                      |   |         |
| Water:                                  | 99.1 %  |         |
| VOC content:                            | 0.00~%  |         |
|   | 0.0 g/l / 0.00 lb/gal                         |         |
| Solids content:                         | 0.9 %   |         |
| • 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:
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.

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<sup>–</sup> US

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· Sensitization: No sensitizing effects known.

• Additional toxicological information:

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

#### · Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· 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.
- · 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:

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.

# \* 14 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 (Contd. on page 7)

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|  |                                 | (Contd. of page 6) |
|--|---------------------------------|--------------------|
| · Packing group<br>· DOT, IMDG, IATA                                   | Not regulated                   |                    |
| · Environmental hazards:   | Not applicable.                 |                    |
| · Special precautions for user   | Not applicable.                 |                    |
| • Transport in bulk according to Annex<br>MARPOL73/78 and the IBC Code | <b>II of</b><br>Not applicable. |                    |
| · UN "Model Regulation":   | Not regulated                   |                    |

# **15 Regulatory information**

\*

| · Sara  |        |
|---|--------|
| Section 355 (extremely hazardous substances):                 |        |
| None of the ingredients is listed.                            |        |
| · Section 313 (Specific toxic chemical listings):             |        |
| CAS: 7757-79-1 Potassium Nitrate                              |        |
| · TSCA (Toxic Substances Control Act):                        |        |
| Water   | ACTIVE |
| Sodium Chloride   | ACTIVE |
| Potassium Nitrate   | ACTIVE |
| Sodium Phosphate Dibasic Anhydrous                            | ACTIVE |
| Sodium Sulfate Anhydrous                                      | ACTIVE |
| Sodium Bromide  | ACTIVE |
| Sodium Iodide   | 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)                                 |        |
|   |        |

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#### $\cdot$ 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: Sodium Bromide
- · Hazard statements
- Suspected of damaging fertility or the unborn child.
- · Precautionary statements

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. 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. • 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 07/25/2024: Reviewed SDS for accuracy. MH/STN Revision 0.0, 05-29-2024: Creation date for SDS. STN 07/25/2024 / 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) 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

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<sup>•</sup> US

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US

REL: Recommended Exposure Limit Toxic to Reproduction 2: Reproductive toxicity – Category 2 • \* Data compared to the previous version altered.