# Safety Data Sheet
## acc. to OSHA HCS

*Printing date 06/07/2024* *Reviewed on 06/07/2024*

## 1 Identification

· **Product identifier**

· **Trade name: pH 8.6 End Point Color Standard**

· **Article number:** 2178

· **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**

GHS08 Health hazard

Toxic to Reproduction 1A H360 May damage 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**

GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**
boric acid
· **Hazard statements**
May damage 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 in a closed container.
Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)

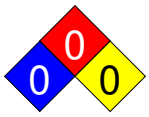
# Safety Data Sheet
## acc. to OSHA HCS

Printing date 06/07/2024 Reviewed on 06/07/2024

**Trade name: pH 8.6 End Point Color Standard**

(Contd. of page 1)

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




Health = 0
Fire = 0
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**


Health = 0
Fire = 0
Reactivity = 0

· **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: 10043-35-3 | boric acid | 0.308% |

| · **Table of Nonhazardous Ingredients** | | |
|---|---|---|
| CAS: 7732-18-5 | Water | 99.231% |
| CAS: 7447-40-7 | Potassium Chloride | 0.372% |
| CAS: 67-56-1 | Methanol | 0.079% |
| CAS: 77-09-8 | Phenolphthalein | 0.01% |

## 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.

(Contd. on page 3)

# Safety Data Sheet
acc. to OSHA HCS

Printing date 06/07/2024 Reviewed on 06/07/2024

**Trade name: pH 8.6 End Point Color Standard**

(Contd. of page 2)

· ***Advice for firefighters***
· ***Protective equipment:*** *No special measures required.*

## 6 Accidental release measures

· ***Personal precautions, protective equipment and emergency procedures*** *Not required.*
· ***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.*
· ***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: 10043-35-3* | *boric acid* | *6 mg/m³* |
| *CAS: 67-56-1* | *Methanol* | *530 ppm* |
| *CAS: 77-09-8* | *Phenolphthalein* | *4 mg/m³* |

| · ***PAC-2:*** | | |
|---|---|---|
| *CAS: 10043-35-3* | *boric acid* | *23 mg/m³* |
| *CAS: 67-56-1* | *Methanol* | *2,100 ppm* |
| *CAS: 77-09-8* | *Phenolphthalein* | *44 mg/m³* |

| · ***PAC-3:*** | | |
|---|---|---|
| *CAS: 10043-35-3* | *boric acid* | *830 mg/m³* |
| *CAS: 67-56-1* | *Methanol* | *7200* ppm* |
| *CAS: 77-09-8* | *Phenolphthalein* | *260 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.*

* 

## 8 Exposure controls/personal protection

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

(Contd. on page 4)

# Safety Data Sheet
acc. to OSHA HCS

Printing date 06/07/2024 Reviewed on 06/07/2024

**Trade name: pH 8.6 End Point Color Standard**

(Contd. of page 3)

· **Control parameters**

| · **Components with limit values that require monitoring at the workplace:** | |
|---|---|
| **CAS: 10043-35-3 boric acid** | |
| TLV | Short-term value: 6* mg/m³<br>Long-term value: 2* mg/m³<br>*as inhalable fraction, A4 |

· **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

## 9 Physical and chemical properties

| · **Information on basic physical and chemical properties** | |
|---|---|
| · **General Information** | |
| · **Appearance:** | |
| **Form:** | Liquid |
| **Color:** | Pale pink |
| · **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) |
| · **Flash point:** | Not applicable. |

(Contd. on page 5)

# Safety Data Sheet
## acc. to OSHA HCS



**Trade name: pH 8.6 End Point Color Standard**

(Contd. of page 4)

| | |
|---|---|
| · **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):** | 1.00482 g/cm³ (8.38522 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/water):** | Not determined. |
| · **Viscosity:** | |
| **Dynamic:** | Not determined. |
| **Kinematic:** | Not determined. |
| · **Solvent content:** | |
| **Organic solvents:** | 0.1 % |
| **Water:** | 99.2 % |
| **VOC content:** | 0.08 %<br>0.8 g/l / 0.01 lb/gal |
| **Solids content:** | 0.7 % |
| · **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.
· **Sensitization:** No sensitizing effects known.

(Contd. on page 6)

# Safety Data Sheet
acc. to OSHA HCS

Printing date 06/07/2024 Reviewed on 06/07/2024

**Trade name: pH 8.6 End Point Color Standard**

(Contd. of page 5)

· **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)** | | |
|---|---|---|
| CAS: 77-09-8 | Phenolphthalein | 2B |

| · **NTP (National Toxicology Program)** | | |
|---|---|---|
| CAS: 77-09-8 | Phenolphthalein | R |

| · **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:**
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** | |
| · **DOT, IMDG, IATA** | Not regulated |
| · **Transport hazard class(es)** | |
| · **DOT, ADN, IMDG, IATA** | |
| · **Class** | Not regulated |

(Contd. on page 7)

# Safety Data Sheet
acc. to OSHA HCS

Printing date 06/07/2024 Reviewed on 06/07/2024

**Trade name: pH 8.6 End Point Color Standard**

(Contd. of page 6)

| | |
|---|---|
| · **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. |
| · **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):**

| | |
|---|---|
| CAS: 67-56-1 | Methanol |
| CAS: 77-09-8 | Phenolphthalein |

· **TSCA (Toxic Substances Control Act):**

| | |
|---|---|
| Water | ACTIVE |
| Potassium Chloride | ACTIVE |
| boric acid | ACTIVE |
| Methanol | ACTIVE |
| Phenolphthalein | ACTIVE |

· **Hazardous Air Pollutants**

| | |
|---|---|
| CAS: 67-56-1 | Methanol |

· **Proposition 65**

· **Chemicals known to cause cancer:**

| | |
|---|---|
| CAS: 77-09-8 | Phenolphthalein |

· **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:**

| | |
|---|---|
| CAS: 67-56-1 | Methanol |

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

| | | |
|---|---|---|
| CAS: 10043-35-3 | boric acid | I (oral) |

· **TLV (Threshold Limit Value)**

| | | |
|---|---|---|
| CAS: 10043-35-3 | boric acid | A4 |

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**
None of the ingredients is listed.

(Contd. on page 8)

# Safety Data Sheet
## acc. to OSHA HCS



**Trade name: pH 8.6 End Point Color Standard**

(Contd. of page 7)

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

GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**
boric acid
· **Hazard statements**
May damage 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 in a closed container.
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, 06/07/2024: Reviewed SDS for accuracy. MH/STN
Revision 0.0, 05-29-2024: Creation date for SDS. STN
06/07/2024
· **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
REL: Recommended Exposure Limit
Toxic to Reproduction 1A: Reproductive toxicity – Category 1A
· *** Data compared to the previous version altered.**