Printing date 05/19/2021

Reviewed on 05/19/2021

1 Identification

- · Product identifier
- Trade name: Borax 1% w/v Solution
- Article number: 1310
- 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

GHS06 Skull and crossbones

Acute Tox. 2 H330 Fatal if inhaled.

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



- · Signal word Danger
- Hazard-determining components of labeling: Sodium Borate Decahydrate
 Hazard statements Fatal if inhaled.
 Precautionary statements Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. [In case of inadequate ventilation] wear respiratory protection. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor. Specific treatment is urgent (see on this label).
- Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

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

(Contd. on page 2)

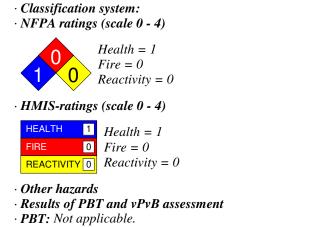
Printing date 05/19/2021

Trade name: Borax 1% w/v Solution Reviewed on 05/19/2021

(Contd. of page 1)

0.996%

99.004%



· vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

- · Description: Mixture of the substances listed below with nonhazardous additions.
- · Dangerous components:
- CAS: 1303-96-4 Sodium Borate Decahydrate

· Table of Nonhazardous Ingredients

CAS: 7732-18-5 Water

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

- After inhalation:
- Supply fresh air or oxygen; call for 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.
- 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.

(Contd. on page 3)

[–] US

Printing date 05/19/2021

Reviewed on 05/19/2021

(Contd. of page 2)

 $6 mg/m^3$

 $190 \, mg/m^3$

 $1,100 \text{ mg/m}^3$

Trade name: Borax 1% w/v Solution

• Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

• Advice for firefighters

· Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.

· Environmental precautions: Dilute with plenty of 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 item 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: 1303-96-4 Sodium Borate Decahydrate

· PAC-2:

CAS: 1303-96-4 Sodium Borate Decahydrate

· PAC-3:

CAS: 1303-96-4 Sodium Borate Decahydrate

7 Handling and storage

· Handling:

• **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.

• 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 item 7.

(Contd. on page 4)

US –

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

Printing date 05/19/2021

Trade name: Borax 1% w/v Solution

· Control parameters

Reviewed on 05/19/2021

(Contd. of page 3)

| | ······································ |
|---------|---|
| CAS: | : 1303-96-4 Sodium Borate Decahydrate |
| REL | Long-term value: 5 mg/m ³ |
| TLV | Short-term value: 6* mg/m ³ |
| | Long-term value: 2* mg/m ³ |
| | *as inhalable fraction |
| · Addi | tional information: The lists that were valid during the creation were used as basis. |
| · Expo | sure controls |
| · Perso | onal protective equipment: |
| · Gene | ral protective and hygienic measures: |
| Keep | away from foodstuffs, beverages and feed. |
| Imme | ediately remove all soiled and contaminated clothing. |
| Wash | n hands before breaks and at the end of work. |
| | protective clothing separately. |
| | thing equipment: |
| | se of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure us |
| | ratory protective device that is independent of circulating air. |
| | ection of hands: |
| | glove material has to be impermeable and resistant to the product/ the substance/ the preparation. |
| | to missing tests no recommendation to the glove material can be given for the product/ the preparation/ th ical mixture. |
| Selec | tion of the glove material on consideration of the penetration times, rates of diffusion and the degradation |
| · Mate | rial of gloves |
| varie | relection of the suitable gloves does not only depend on the material, but also on further marks of quality an s from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of |
| | love material can not be calculated in advance and has therefore to be checked prior to the application. |
| | tration time of glove material |
| The e | exact break through time has to be found out by the manufacturer of the protective gloves and has to b rved. |
| · Eve r | protection: Gaugles recommended during refilling |

• *Eye protection: Goggles recommended during refilling.*

· Body protection: Protective work clothing

*

| Information on basic physical and chemical properties General Information | | | | | | |
|--|-----------------|--|--|--|--|--|
| Appearance: Form: | Liquid | | | | | |
| Color: | Clear | | | | | |
| 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. | | | | | |

Printing date 05/19/2021

Reviewed on 05/19/2021

Trade name: Borax 1% w/v Solution

| | (Contd. of page 4) |
|---|---|
| · 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): | 1.00422 g/cm ³ (8.38022 lbs/gal) |
| · Relative density | Not determined. |
| · Vapor density | Not determined. |
| \cdot Evaporation rate | Not determined. |
| · Solubility in / Miscibility with | |
| Water: | Fully miscible. |
| · Partition coefficient (n-octanol/wate | e r): Not determined. |
| · Viscosity: | |
| Dynamic: | Not determined. |
| Kinematic: | Not determined. |
| · Solvent content: | |
| Water: | 99.0 % |
| VOC content: | 0.00 % |
| | 0.0 g/l / 0.00 lb/gal |
| Solids content: | 1.0 % |
| · 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.
- · 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)

Inhalative LC50/4h 0.5 mg/l

(Contd. on page 6)

US

Printing date 05/19/2021

Reviewed on 05/19/2021

Trade name: Borax 1% w/v Solution

(Contd. of page 5)

- · 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 shows the following dangers according to internally approved calculation methods for preparations: Toxic*
- Very toxic
- · 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.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

| · UN-Number | | |
|---------------------------|---------------|--|
| · DOT, ADN, IMDG, IATA | Not regulated | |
| · UN proper shipping name | | |
| · DOT, ÂDN, IMDĞ, IATA | Not regulated | |

Printing date 05/19/2021

Reviewed on 05/19/2021

Trade name: Borax 1% w/v Solution

| | | (Contd. of page 6) |
|---|------------------------------|--------------------|
| · Transport hazard class(es) | | |
| · DOT, ADN, IMDG, IATA · Class | Not regulated | |
| · Packing group · DOT, IMDG, IATA | Not regulated | |
| • Environmental hazards: • Marine pollutant: | No | |
| · Special precautions for user | Not applicable. | |
| • Transport in bulk according to Annex II MARPOL73/78 and the IBC Code | 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

| Sura | | | | |
|---|--------------------|--|--|--|
| · Section 355 (extremely hazardous substances): | | | | |
| None of the ingredients is listed. | | | | |
| · Section 313 (Specific toxic chemical listings): | | | | |
| None of the ingredients is listed. | | | | |
| · TSCA (Toxic Substances Control Act): | | | | |
| Water | ACTIVE | | | |
| Sodium Borate Decahydrate | 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) | | | | |
| CAS: 1303-96-4 Sodium Borate Decahydrate | I (oral) | | | |
| · TLV (Threshold Limit Value) | | | | |
| CAS: 1303-96-4 Sodium Borate Decahydrate | A4 | | | |
| | (Contd. on page 8) | | | |
| | | | | |

Printing date 05/19/2021

Trade name: Borax 1% w/v Solution Reviewed on 05/19/2021

(Contd. of page 7)

\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 Danger
- *Hazard-determining components of labeling:* Sodium Borate Decahydrate
- · Hazard statements
- Fatal if inhaled.
- · Precautionary statements

Do not breathe dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

[In case of inadequate ventilation] wear respiratory protection.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Immediately call a poison center/doctor.

Specific treatment is urgent (see on this label).

Store in a well-ventilated place. Keep container tightly closed.

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 Creation date for SDS 11-06-2015. STN 05/19/2021 / 1.0 · 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

(Contd. on page 9)

⁻ US

Printing date 05/19/2021

Trade name: Borax 1% w/v Solution

Reviewed on 05/19/2021

(Contd. of page 8)

US

Acute Tox. 2: Acute toxicity – Category 2 • * Data compared to the previous version altered.