

# Safety Data Sheet

acc. to OSHA HCS

Printing date 10/30/2017

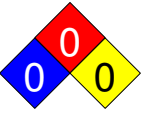



Reviewed on 10/30/2017

## 1 Identification

- **Product identifier**
- **Trade name:** Total Organic Carbon Std.  
10,000 ppm, Preserved with H<sub>2</sub>SO<sub>4</sub>
- **Article number:** DC804-130
- **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.  
Dispose of contents/container in accordance with local/regional/national/international regulations.
  - **Classification system:**
  - **NFPA ratings (scale 0 - 4)**
- |   |  |
|---|--|
|  | Health = 0<br>Fire = 0<br>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.

US

(Contd. on page 2)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 10/30/2017

Reviewed on 10/30/2017

**Trade name: Total Organic Carbon Std.**  
**10,000 ppm, Preserved with H<sub>2</sub>SO<sub>4</sub>**

(Contd. of page 1)

### 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: 877-24-7  | Potassium Hydrogen Phthalate | 2.108%  |
| CAS: 7664-93-9 | Sulfuric Acid 96 - 98%       | 0.0365% |
| CAS: 7732-18-5 | Water                        | 97.856% |

### 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:** 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.
- **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: 877-24-7  | Potassium Hydrogen Phthalate | 9.6 mg/m <sup>3</sup>  |
| CAS: 7664-93-9 | Sulfuric Acid 96 - 98%       | 0.20 mg/m <sup>3</sup> |

(Contd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 10/30/2017

Reviewed on 10/30/2017

**Trade name: Total Organic Carbon Std.**  
**10,000 ppm, Preserved with H<sub>2</sub>SO<sub>4</sub>**

(Contd. of page 2)

|                 |                              |                       |
|-----------------|------------------------------|-----------------------|
| <b>· PAC-2:</b> |                              |                       |
| CAS: 877-24-7   | Potassium Hydrogen Phthalate | 110 mg/m <sup>3</sup> |
| CAS: 7664-93-9  | Sulfuric Acid 96 - 98%       | 8.7 mg/m <sup>3</sup> |
| <b>· PAC-3:</b> |                              |                       |
| CAS: 877-24-7   | Potassium Hydrogen Phthalate | 630 mg/m <sup>3</sup> |
| CAS: 7664-93-9  | Sulfuric Acid 96 - 98%       | 160 mg/m <sup>3</sup> |

## 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:** None.
- **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.  
 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.

(Contd. on page 4)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 10/30/2017

Reviewed on 10/30/2017

**Trade name: Total Organic Carbon Std.**  
**10,000 ppm, Preserved with H<sub>2</sub>SO<sub>4</sub>**

(Contd. of page 3)

- **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:

|                        |                 |
|------------------------|-----------------|
| <b>Form:</b>           | Liquid          |
| <b>Color:</b>          | Clear           |
| <b>Odor:</b>           | Odorless        |
| <b>Odor threshold:</b> | Not determined. |

· **pH-value:** Not determined.

#### · Change in condition

|                                     |                 |
|-------------------------------------|-----------------|
| <b>Melting point/Melting range:</b> | Undetermined.   |
| <b>Boiling point/Boiling range:</b> | 100 °C (212 °F) |

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** Not applicable.

#### · Ignition temperature:

**Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

#### · Explosion limits:

|               |                 |
|---------------|-----------------|
| <b>Lower:</b> | Not determined. |
| <b>Upper:</b> | Not determined. |

· **Vapor pressure at 20 °C (68 °F):** 23 hPa (17.3 mm Hg)

|                                  |   |
|----------------------------------|---|
| <b>Density at 20 °C (68 °F):</b> | 1.00843 g/cm <sup>3</sup> (8.41535 lbs/gal) |
| <b>Relative density</b>          | Not determined.                             |
| <b>Vapor density</b>             | Not determined.                             |
| <b>Evaporation rate</b>          | Not determined.                             |

#### · Solubility in / Miscibility with

**Water:** Fully miscible.

· **Partition coefficient (n-octanol/water):** Not determined.

#### · Viscosity:

|                   |                 |
|-------------------|-----------------|
| <b>Dynamic:</b>   | Not determined. |
| <b>Kinematic:</b> | Not determined. |

#### · Solvent content:

|                     |                      |
|---------------------|----------------------|
| <b>Water:</b>       | 97.9 %               |
| <b>VOC content:</b> | 0.00 %               |
|                     | 0.0 g/l / 0.00 lb/gl |

**Solids content:** 2.1 %

(Contd. on page 5)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 10/30/2017

Reviewed on 10/30/2017

**Trade name: Total Organic Carbon Std.**  
**10,000 ppm, Preserved with H<sub>2</sub>SO<sub>4</sub>**

(Contd. of page 4)

· **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)**

|      |      |                      |
|------|------|----------------------|
| Oral | LD50 | >151,831 mg/kg (rat) |
|------|------|----------------------|

- **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: 7664-93-9 | Sulfuric Acid 96 - 98% | I |
|----------------|------------------------|---|

- **NTP (National Toxicology Program)**

|                |                        |   |
|----------------|------------------------|---|
| CAS: 7664-93-9 | Sulfuric Acid 96 - 98% | K |
|----------------|------------------------|---|

- **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:** *Generally not hazardous for water*

(Contd. on page 6)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 10/30/2017

Reviewed on 10/30/2017

**Trade name: Total Organic Carbon Std.**  
**10,000 ppm, Preserved with H<sub>2</sub>SO<sub>4</sub>**

(Contd. of page 5)

- **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.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

- |  |                 |
|--|-----------------|
| · <b>UN-Number</b>   |                 |
| · <b>DOT, ADN, IMDG, IATA</b>  | Not regulated   |
| · <b>UN proper shipping name</b>   |                 |
| · <b>DOT, ADN, IATA</b>  | Not regulated   |
| · <b>IMDG</b>  | Not Regulated   |
| · <b>Transport hazard class(es)</b>  |                 |
| · <b>DOT, ADN, IMDG, IATA</b>  |                 |
| · <b>Class</b>   | Not regulated   |
| · <b>Packing group</b>   |                 |
| · <b>DOT, IMDG, IATA</b>   | Not regulated   |
| · <b>Environmental hazards:</b>  |                 |
| · <b>Marine pollutant:</b>   | No              |
| · <b>Special precautions for user</b>  | Not applicable. |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>  | Not regulated   |

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

· **Section 355 (extremely hazardous substances):**

|                |                        |
|----------------|------------------------|
| CAS: 7664-93-9 | Sulfuric Acid 96 - 98% |
|----------------|------------------------|

· **Section 313 (Specific toxic chemical listings):**

|                |                        |
|----------------|------------------------|
| CAS: 7664-93-9 | Sulfuric Acid 96 - 98% |
|----------------|------------------------|

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

|                              |
|------------------------------|
| Potassium Hydrogen Phthalate |
|------------------------------|

|                        |
|------------------------|
| Sulfuric Acid 96 - 98% |
|------------------------|

(Contd. on page 7)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 10/30/2017

Reviewed on 10/30/2017

**Trade name: Total Organic Carbon Std.  
10,000 ppm, Preserved with H<sub>2</sub>SO<sub>4</sub>**

(Contd. of page 6)

Water

- **TSCA new (21st Century Act) (Substances not 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: 7664-93-9 | Sulfuric Acid 96 - 98%

A2

- **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 lenses, if present and easy to do. Continue rinsing.

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**

10-30-2017: review SDS for accuracy. STN

Creation Date for SDS 12-30-2014 STN

10/30/2017 / -

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

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

(Contd. on page 8)

US

**Safety Data Sheet**  
**acc. to OSHA HCS**

Printing date 10/30/2017

Reviewed on 10/30/2017

**Trade name: Total Organic Carbon Std.**  
**10,000 ppm, Preserved with H<sub>2</sub>SO<sub>4</sub>**

(Contd. of page 7)

*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*

US