



**Be Right™**

# SAFETY DATA SHEET

Issue Date 27-Apr-2021

Revision Date 08-Feb-2023

Version 3.4

Page 1 / 16

## 1. IDENTIFICATION

**Product identifier**

**Product Name** Wastewater Effluent Inorganics Quality Control Standard

**Other means of identification**

**Product Code(s)** 2833249

**Safety data sheet number** M02163

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Standard solution. Water Analysis.

**Uses advised against** None.

**Restrictions on use** None.

**Details of the supplier of the safety data sheet**

**Manufacturer Address**

Hach Company, P.O.Box 389, Loveland, CO 80539, USA, +1(970) 669-3050

**Emergency telephone number**

+1(303) 623-5716 - 24 Hour Service

## 2. HAZARDS IDENTIFICATION

**Classification**

**Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

**Hazards not otherwise classified (HNOC)**

Not applicable

**Label elements**

**Signal word**

None

**Hazard statements**

The product contains no substances which at their given concentration, are considered to be hazardous to health

**Other Hazards Known**

None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product Code(s) 2833249

Product Name Wastewater Effluent Inorganics Quality Control Standard

Issue Date 27-Apr-2021

Revision Date 08-Feb-2023

Version 3.4

Page 2 / 16

**Substance**

Not applicable

**Mixture**

Percent ranges are used where confidential product information is applicable.

| Chemical name                        | CAS No    | Percent Range | HMRIC # |
|--------------------------------------|-----------|---------------|---------|
| Sodium sulfate                       | 7757-82-6 | <0.01%        | -       |
| Potassium nitrate                    | 7757-79-1 | <0.01%        | -       |
| Benzenesulfonic acid, 4-amino-       | 121-57-3  | <0.01%        | -       |
| Sulfuric acid, copper(2+) salt (1:1) | 7758-98-7 | <0.01%        | -       |
| Diammonium sulfate                   | 7783-20-2 | <0.01%        | -       |

**4. FIRST AID MEASURES**

**Description of first aid measures**

**General advice** No hazards which require special first aid measures. Use first aid treatment according to the nature of the injury.

**Inhalation** Remove to fresh air.

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Skin contact** Wash skin with soap and water.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** See Section 11 for additional Toxicological Information.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** Caution: Use of water spray when fighting fire may be inefficient.

**Specific hazards arising from the chemical** No information available.

**Hazardous combustion products** No information available.

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

**6. ACCIDENTAL RELEASE MEASURES**

**U.S. Notice**

Only persons properly qualified to respond to an emergency involving hazardous substances may respond to a spill according to federal regulations (OSHA 29 CFR 1910.120(a)(v)) and per your company's emergency response plan and guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside of the US, only persons properly qualified according to state or local regulations should respond to a spill involving chemicals.

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Ensure adequate ventilation.

**Environmental precautions**

**Environmental precautions** See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

**Reference to other sections** See section 8 for more information. See section 13 for more information.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Flammability class** Not applicable

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

| Chemical name   | ACGIH TLV                                 | OSHA PEL | NIOSH   |
|---|---|----------|---|
| Sulfuric acid, copper(2+) salt (1:1)<br>CAS#: 7758-98-7 | TWA: 1 mg/m <sup>3</sup> Cu dust and mist | NDF      | IDLH: 100 mg/m <sup>3</sup> Cu dust and mist<br>TWA: 1 mg/m <sup>3</sup> Cu dust and mist |

**Appropriate engineering controls**

**Engineering Controls** Showers  
Eyewash stations  
Ventilation systems. Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. The type of protective equipment must be selected according to the concentration and amount of the dangerous

substance at the specific workplace.

**Individual protection measures, such as personal protective equipment**

|  |  |
|--|--|
| <b>Respiratory protection</b>          | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. Ensure adequate ventilation. Wear breathing apparatus if exposed to vapors/dusts/aerosols.  |
| <b>Hand Protection</b>                 | Wear suitable gloves. Barrier creams may help to protect the exposed areas of skin. Gloves must be inspected prior to use. The selected protective gloves have to satisfy the specifications of EU Directive 2016/425 and the standard EN 374 derived from it. Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374-1:2016. |
| <b>Eye/face protection</b>             | Wear safety glasses with side shields (or goggles).  |
| <b>Skin and body protection</b>        | No special protective equipment required. Avoid contact with eyes, skin and clothing.  |
| <b>General Hygiene Considerations</b>  | Handle in accordance with good industrial hygiene and safety practice.   |
| <b>Environmental exposure controls</b> | Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water.  |
| <b>Thermal hazards</b>                 | None under normal processing.  |

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

|                       |                  |                       |                   |
|-----------------------|------------------|-----------------------|-------------------|
| <b>Physical state</b> | Liquid           | <b>Color</b>          | colorless         |
| <b>Appearance</b>     | aqueous solution | <b>Odor threshold</b> | No data available |
| <b>Odor</b>           | Odorless         |                       |                   |

| <u>Property</u>  | <u>Values</u>                            | <u>Remarks • Method</u> |
|--|--|-------------------------|
| <b>Molecular weight</b>                                | No data available                        |                         |
| <b>pH</b>  | No data available                        |                         |
| <b>Melting point / freezing point</b>                  | ~ 0 °C / 32 °F                           |                         |
| <b>Initial boiling point and boiling range</b>         | ~ 100 °C / 212 °F                        |                         |
| <b>Evaporation rate</b>                                | 1 (water = 1)                            |                         |
| <b>Vapor pressure</b>                                  | 23.777 mm Hg / 3.17 kPa at 25 °C / 77 °F |                         |
| <b>Relative vapor density</b>                          | 0.62                                     |                         |
| <b>Specific Gravity</b>                                | 1  |                         |
| <b>Partition coefficient</b>                           | Not applicable                           |                         |
| <b>Soil Organic Carbon-Water Partition Coefficient</b> | Not applicable                           |                         |
| <b>Autoignition temperature</b>                        | No data available                        |                         |
| <b>Decomposition temperature</b>                       | No data available                        |                         |
| <b>Dynamic viscosity</b>                               | No data available                        |                         |
| <b>Kinematic viscosity</b>                             | No data available                        |                         |

Product Code(s) 2833249

Product Name Wastewater Effluent Inorganics Quality Control Standard

Issue Date 27-Apr-2021

Revision Date 08-Feb-2023

Version 3.4

Page 5 / 16

### Solubility(ies)

#### Water solubility

| Water solubility classification | Water solubility | Water Solubility Temperature |
|---------------------------------|------------------|------------------------------|
| Soluble                         | > 1000 mg/L      | 25 °C / 77 °F                |

#### Solubility in other solvents

| Chemical Name | Solubility classification | Solubility  | Solubility Temperature |
|---------------|---------------------------|-------------|------------------------|
| Acid          | Soluble                   | > 1000 mg/L | 25 °C / 77 °F          |

### Other information

#### Metal Corrosivity

Steel Corrosion Rate

No data available

Aluminum Corrosion Rate

No data available

#### Volatile Organic Compounds (VOC) Content

| Chemical name                        | CAS No    | Volatile organic compounds (VOC) content | CAA (Clean Air Act) |
|--------------------------------------|-----------|--|---------------------|
| Sodium sulfate                       | 7757-82-6 | No data available                        | -                   |
| Potassium nitrate                    | 7757-79-1 | No data available                        | -                   |
| Benzenesulfonic acid, 4-amino-       | 121-57-3  | No data available                        | X                   |
| Sulfuric acid, copper(2+) salt (1:1) | 7758-98-7 | No data available                        | -                   |
| Diammonium sulfate                   | 7783-20-2 | No data available                        | -                   |

#### Explosive properties

Upper explosion limit

No data available

Lower explosion limit

No data available

#### Flammable properties

Flash point

No data available

#### Flammability Limit in Air

Upper flammability limit:

No data available

Lower flammability limit:

No data available

#### Oxidizing properties

No data available.

#### Bulk density

No data available

## 10. STABILITY AND REACTIVITY

### Reactivity

Not applicable.

### Chemical stability

Stable under normal conditions.

Product Code(s) 2833249

Product Name Wastewater Effluent Inorganics Quality Control Standard

Issue Date 27-Apr-2021

Revision Date 08-Feb-2023

Version 3.4

Page 6 / 16

#### Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

#### Possibility of hazardous reactions

None under normal processing.

#### Hazardous polymerization

None under normal processing.

#### Conditions to avoid

None known based on information supplied.

#### Incompatible materials

Strong oxidizing agents, strong acids, and strong bases.

#### Hazardous decomposition products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

**Inhalation** No known effect based on information supplied.

**Eye contact** No known effect based on information supplied.

**Skin contact** No known effect based on information supplied.

**Ingestion** No known effect based on information supplied.

**Symptoms** No information available.

#### Acute toxicity

Based on available data, the classification criteria are not met

#### **Mixture**

No data available.

#### **Ingredient Acute Toxicity Data**

Test data reported below.

#### **Oral Exposure Route**

| Chemical name  | Endpoint type        | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
|--|----------------------|---------------|---------------|-----------------------|--|
| Potassium nitrate (<0.01%)<br>CAS#: 7757-79-1                    | Rat LD <sub>50</sub> | 3015 mg/kg    | None reported | None reported         | IUCLID   |
| Benzenesulfonic acid, 4-amino- (<0.01%)<br>CAS#: 121-57-3        | Rat LD <sub>50</sub> | 12300 mg/kg   | None reported | None reported         | IUCLID   |
| Sulfuric acid, copper(2+) salt (1:1) (<0.01%)<br>CAS#: 7758-98-7 | Rat LD <sub>50</sub> | 300 mg/kg     | None reported | None reported         | LOLI   |

Product Code(s) 2833249

Product Name Wastewater Effluent Inorganics Quality Control Standard

Issue Date 27-Apr-2021

Revision Date 08-Feb-2023

Version 3.4

Page 7 / 16

|  |                      |            |               |               |        |
|--|----------------------|------------|---------------|---------------|--------|
| Diammonium sulfate (<0.01%)<br>CAS#: 7783-20-2 | Rat LD <sub>50</sub> | 2840 mg/kg | None reported | None reported | GESTIS |
|--|----------------------|------------|---------------|---------------|--------|

#### Dermal Exposure Route

| Chemical name  | Endpoint type           | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
|--|-------------------------|---------------|---------------|-----------------------|--|
| Sulfuric acid, copper(2+) salt (1:1) (<0.01%)<br>CAS#: 7758-98-7 | Rabbit LD <sub>50</sub> | > 2000 mg/kg  | None reported | None reported         | ECHA   |

#### Unknown Acute Toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity.

#### Acute Toxicity Estimations (ATE)

|                               |                          |
|-------------------------------|--------------------------|
| ATEmix (oral)                 | No information available |
| ATEmix (dermal)               | No information available |
| ATEmix (inhalation-dust/mist) | No information available |
| ATEmix (inhalation-vapor)     | No information available |
| ATEmix (inhalation-gas)       | No information available |

#### Skin corrosion/irritation

Based on available data, the classification criteria are not met.

#### Mixture

No data available.

#### Ingredient Skin Corrosion/Irritation Data

Test data reported below.

| Chemical name  | Test method          | Species | Reported dose | Exposure time | Results                             | Key literature references and sources for data |
|--|----------------------|---------|---------------|---------------|-------------------------------------|--|
| Sodium sulfate (<0.01%)<br>CAS#: 7757-82-6                       | Standard Draize Test | Rabbit  | 500 mg        | 4 hours       | Not corrosive or irritating to skin | ECHA   |
| Benzenesulfonic acid, 4-amino- (<0.01%)<br>CAS#: 121-57-3        | Standard Draize Test | Rabbit  | 500 mg        | 24 hours      | Mild skin irritant                  | RTECS  |
| Sulfuric acid, copper(2+) salt (1:1) (<0.01%)<br>CAS#: 7758-98-7 | Standard Draize Test | Rabbit  | 500 mg        | 4 hours       | Skin irritant                       | ECHA   |
| Diammonium sulfate (<0.01%)<br>CAS#: 7783-20-2                   | Standard Draize Test | Rabbit  | 800 mg        | 20 hours      | Not corrosive or irritating to skin | ECHA   |

#### Serious eye damage/irritation

Based on available data, the classification criteria are not met.

#### Mixture

No data available.

#### Ingredient Eye Damage/Eye Irritation Data

Test data reported below.

| Chemical name   | Test method          | Species | Reported dose | Exposure time | Results                             | Key literature references and sources for data |
|---|----------------------|---------|---------------|---------------|-------------------------------------|--|
| Sodium sulfate (<0.01%)<br>CAS#: 7757-82-6                | Standard Draize Test | Rabbit  | 90 mg         | 24 hours      | Not corrosive or irritating to eyes | ECHA   |
| Benzenesulfonic acid, 4-amino- (<0.01%)<br>CAS#: 121-57-3 | Standard Draize Test | Rabbit  | 100 mg        | 24 hours      | Eye irritant                        | RTECS  |
| Diammonium sulfate (<0.01%)<br>CAS#: 7783-20-2            | Standard Draize Test | Rabbit  | 0.050 mL      | None reported | Not corrosive or irritating to eyes | ECHA   |

**Respiratory or skin sensitization**

Based on available data, the classification criteria are not met.

**Mixture**

No data available.

**Ingredient Sensitization Data**

Test data reported below.

**Skin Sensitization Exposure Route**

| Chemical name   | Test method                           | Species    | Results                               | Key literature references and sources for data |
|---|---------------------------------------|------------|---------------------------------------|--|
| Sodium sulfate (<0.01%)<br>CAS#: 7757-82-6                | OECD Test No. 406: Skin Sensitization | Guinea pig | Not confirmed to be a skin sensitizer | HSDB   |
| Benzenesulfonic acid, 4-amino- (<0.01%)<br>CAS#: 121-57-3 | OECD Test No. 406: Skin Sensitization | Guinea pig | Confirmed to be a skin sensitizer     | IUCLID   |

**STOT - single exposure**

Based on available data, the classification criteria are not met.

**Mixture**

No data available.

**Ingredient Specific Target Organ Toxicity Single Exposure Data**

Test data reported below.

**Oral Exposure Route**

| Chemical name                                  | Endpoint type        | Reported dose | Exposure time | Toxicological effects                               | Key literature references and sources for data |
|--|----------------------|---------------|---------------|---|--|
| Potassium nitrate (<0.01%)<br>CAS#: 7757-79-1  | Rat TD <sub>Lo</sub> | 10 mg/kg      | None reported | <b>Blood</b><br>Methemoglobinemia-Carboxyhemoglobin | RTECS  |
| Diammonium sulfate (<0.01%)<br>CAS#: 7783-20-2 | Man TD <sub>Lo</sub> | 1500 mg/kg    | None reported | <b>Gastrointestinal</b><br>Gas                      | RTECS  |

**STOT - repeated exposure**

Based on available data, the classification criteria are not met.

**Mixture**



No data available.

### Ingredient Specific Target Organ Toxicity Repeat Exposure Data

Test data reported below.

#### Oral Exposure Route

| Chemical name                                 | Endpoint type          | Reported dose | Exposure time | Toxicological effects  | Key literature references and sources for data |
|---|------------------------|---------------|---------------|--|--|
| Potassium nitrate (<0.01%)<br>CAS#: 7757-79-1 | Mouse TD <sub>Lo</sub> | 36000 mg/kg   | 90 days       | <b>Kidney, Ureter, or Bladder</b><br>Evidence of thyroid hypofunction, Changes in thyroid weight | RTECS  |

#### Carcinogenicity

Based on available data, the classification criteria are not met.

#### Mixture

No data available.

#### Ingredient Carcinogenicity Data

No data available.

| Chemical name                        | CAS No    | ACGIH | IARC     | NTP | OSHA |
|--------------------------------------|-----------|-------|----------|-----|------|
| Sodium sulfate                       | 7757-82-6 | -     | -        | -   | -    |
| Potassium nitrate                    | 7757-79-1 | -     | Group 2A | -   | X    |
| Benzenesulfonic acid, 4-amino-       | 121-57-3  | -     | -        | -   | -    |
| Sulfuric acid, copper(2+) salt (1:1) | 7758-98-7 | -     | -        | -   | -    |
| Diammonium sulfate                   | 7783-20-2 | -     | -        | -   | -    |

#### Legend

|  |                |
|--|----------------|
| <b>ACGIH (American Conference of Governmental Industrial Hygienists)</b> | Does not apply |
| <b>IARC (International Agency for Research on Cancer)</b>                | Does not apply |
| <b>NTP (National Toxicology Program)</b>                                 | Does not apply |
| <b>OSHA</b>  | Does not apply |

#### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

#### Mixture invitro Data

No data available.

#### Substance invitro Data

Test data reported below.

| Chemical name   | Test                                      | Cell Strain                   | Reported dose | Exposure time | Results                               | Key literature references and sources for data |
|---|---|-------------------------------|---------------|---------------|---------------------------------------|--|
| Potassium nitrate (<0.01%)<br>CAS#: 7757-79-1             | Gene conversion and mitotic recombination | Escherichia coli              | 5 mg/L        | None reported | Positive test result for mutagenicity | RTECS  |
| Benzenesulfonic acid, 4-amino- (<0.01%)<br>CAS#: 121-57-3 | Mutation in microorganisms                | <i>Salmonella typhimurium</i> | None reported | None reported | Negative                              | IUCLID   |
| Sulfuric acid, copper(2+) salt (1:1)                      | DNA inhibition                            | Human lymphocyte              | 0.076 mmol/L  | None reported | Positive test result for mutagenicity | RTECS  |

|                             |  |  |  |  |  |  |
|-----------------------------|--|--|--|--|--|--|
| (<0.01%)<br>CAS#: 7758-98-7 |  |  |  |  |  |  |
|-----------------------------|--|--|--|--|--|--|

**Mixture** *in vivo* Data

No data available.

**Substance** *in vivo* Data

No data available.

**Reproductive toxicity**

Based on available data, the classification criteria are not met.

**Mixture**

No data available.

**Ingredient Reproductive Toxicity Data**

Test data reported below.

**Oral Exposure Route**

| Chemical name                                 | Endpoint type          | Reported dose | Exposure time | Toxicological effects                                    | Key literature references and sources for data |
|---|------------------------|---------------|---------------|--|--|
| Sodium sulfate (<0.01%)<br>CAS#: 7757-82-6    | Mouse TD <sub>Lo</sub> | 14000 mg/kg   | 4 days        | Effects on Newborn<br>Other neonatal measures or effects | RTECS  |
| Potassium nitrate (<0.01%)<br>CAS#: 7757-79-1 | Rat TD <sub>Lo</sub>   | 598 mg/kg     | 21 days       | Effects on Newborn<br>Reproductive Behavioral            | RTECS  |

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Based on available data, the classification criteria are not met.

**Mixture**

**Aquatic Acute Toxicity**

No data available.

**Aquatic Chronic Toxicity**

No data available.

**Substance**

**Aquatic Acute Toxicity**

Test data reported below.

**Fish**

| Chemical name                                 | Exposure time | Species                    | Endpoint type    | Reported dose | Key literature references and sources for data |
|---|---------------|----------------------------|------------------|---------------|--|
| Sodium sulfate (<0.01%)<br>CAS#: 7757-82-6    | 96 hours      | None reported              | LC <sub>50</sub> | 56 mg/L       | IUCLID   |
| Potassium nitrate (<0.01%)<br>CAS#: 7757-79-1 | 96 hours      | <i>Gambusia affinis</i>    | LC <sub>50</sub> | > 100 mg/L    | ECHA   |
| Benzenesulfonic acid,                         | 96 hours      | <i>Pimephales promelas</i> | LC <sub>50</sub> | 100.4 mg/L    | IUCLID   |

|  |          |                            |                  |             |            |
|--|----------|----------------------------|------------------|-------------|------------|
| 4-amino-<br>(<0.01%)<br>CAS#: 121-57-3                                 |          |                            |                  |             |            |
| Sulfuric acid,<br>copper(2+) salt (1:1)<br>(<0.01%)<br>CAS#: 7758-98-7 | 96 hours | <i>Pimephales promelas</i> | LC <sub>50</sub> | 0.0028 mg/L | Vendor SDS |
| Diammonium sulfate<br>(<0.01%)<br>CAS#: 7783-20-2                      | 96 hours | <i>Oncorhynchus mykiss</i> | LC <sub>50</sub> | 36.7 mg/L   | GESTIS     |

**Crustacea**

| Chemical name  | Exposure time | Species              | Endpoint type    | Reported dose | Key literature references and sources for data |
|--|---------------|----------------------|------------------|---------------|--|
| Sodium sulfate<br>(<0.01%)<br>CAS#: 7757-82-6                          | 48 Hours      | <i>Daphnia magna</i> | EC <sub>50</sub> | 3150 mg/L     | IUCLID   |
| Potassium nitrate<br>(<0.01%)<br>CAS#: 7757-79-1                       | 48 Hours      | <i>Daphnia magna</i> | EC <sub>50</sub> | 490 mg/L      | Vendor SDS                                     |
| Benzenesulfonic acid,<br>4-amino-<br>(<0.01%)<br>CAS#: 121-57-3        | 48 Hours      | <i>Daphnia magna</i> | EC <sub>50</sub> | 85.66 mg/L    | IUCLID   |
| Sulfuric acid,<br>copper(2+) salt (1:1)<br>(<0.01%)<br>CAS#: 7758-98-7 | 48 Hours      | <i>Daphnia magna</i> | EC <sub>50</sub> | 0.0014 mg/L   | Vendor SDS                                     |
| Diammonium sulfate<br>(<0.01%)<br>CAS#: 7783-20-2                      | 48 Hours      | None reported        | LC <sub>50</sub> | 14 mg/L       | GESTIS   |

**Algae**

| Chemical name  | Exposure time | Species                         | Endpoint type    | Reported dose | Key literature references and sources for data |
|--|---------------|---------------------------------|------------------|---------------|--|
| Benzenesulfonic acid,<br>4-amino-<br>(<0.01%)<br>CAS#: 121-57-3        | 72 Hours      | <i>Scenedesmus subspicatus</i>  | EC <sub>50</sub> | 91 mg/L       | IUCLID   |
| Sulfuric acid,<br>copper(2+) salt (1:1)<br>(<0.01%)<br>CAS#: 7758-98-7 | 72 Hours      | <i>Thalassiosira pseudonana</i> | EC <sub>50</sub> | 0.005 mg/L    | ERMA   |

**Aquatic Chronic Toxicity**

No data available.

**Persistence and degradability****Mixture**

No data available.

**Bioaccumulation**

MATERIAL DOES NOT BIOACCUMULATE

**Mixture**

No data available.

**Partition coefficient**

Not applicable

Product Code(s) 2833249

Product Name Wastewater Effluent Inorganics Quality Control Standard

Issue Date 27-Apr-2021

Revision Date 08-Feb-2023

Version 3.4

Page 12 / 16

### Mobility

Soil Organic Carbon-Water Partition Coefficient Not applicable

Other adverse effects  
No information available

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

Special instructions for disposal If permitted by regulation. Adjust to a pH between 6 and 9 with an alkali, such as soda ash or sodium bicarbonate. Open cold water tap completely, slowly pour the reacted material to the drain. Flush system with plenty of water. Dispose of material in an E.P.A. approved hazardous waste facility.

## 14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

IATA Not regulated

IMDG Not regulated

**Note:** No special precautions necessary.

### **Additional information**

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies.

If the item is part of a reagent set or kit the classification would change to the following:

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

## 15. REGULATORY INFORMATION

### National Inventories

TSCA Complies

DSL/NDSL Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

### International Inventories

EINECS/ELINCS Complies

ENCS Complies

IECSC Complies

KECL - Existing substances Complies

PICCS Complies

TCSI Complies

Product Code(s) 2833249

Product Name Wastewater Effluent Inorganics Quality Control Standard

Issue Date 27-Apr-2021

Revision Date 08-Feb-2023

Version 3.4

Page 13 / 16

AICS Complies  
NZIoC Complies

- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS - Japan Existing and New Chemical Substances
- IECSC - China Inventory of Existing Chemical Substances
- KECL - Korean Existing and Evaluated Chemical Substances
- PICCS - Philippines Inventory of Chemicals and Chemical Substances
- TCSI - Taiwan Chemical Substances Inventory
- AICS - Australian Inventory of Chemical Substances
- NZIoC - New Zealand Inventory of Chemicals

**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical name   | SARA 313 - Threshold Values % |
|---|-------------------------------|
| Potassium nitrate (CAS #: 7757-79-1)                    | 1.0                           |
| Sulfuric acid, copper(2+) salt (1:1) (CAS #: 7758-98-7) | 1.0                           |
| Diammonium sulfate (CAS #: 7783-20-2)                   | 1.0                           |

**SARA 311/312 Hazard Categories**

|                                   |    |
|-----------------------------------|----|
| Acute health hazard               | No |
| Chronic Health Hazard             | No |
| Fire hazard                       | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard                   | No |

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical name                                     | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---|-----------------------------|------------------------|---------------------------|----------------------------|
| Sulfuric acid, copper(2+) salt (1:1)<br>7758-98-7 | 10 lb                       | X                      | -                         | X                          |

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

| Chemical name                                     | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ)                 |
|---|--------------------------|----------------|--|
| Sulfuric acid, copper(2+) salt (1:1)<br>7758-98-7 | 10 lb                    | -              | RQ 10 lb final RQ<br>RQ 4.54 kg final RQ |

**U.S. - Department of Homeland Security - Chemical Facility Anti-Terrorism Standards (CFATS) - Security Issues**

| Chemical name                                 | U.S. - Department of Homeland Security - Chemical Facility Anti-Terrorism Standards (CFATS) - Security Issues |
|---|---|
| Potassium nitrate (<0.01%)<br>CAS#: 7757-79-1 | Theft - Explosives/Improvised Explosive Device Precursors   |

**US State Regulations**

**Product Code(s)** 2833249

**Product Name** Wastewater Effluent Inorganics Quality Control Standard

**Issue Date** 27-Apr-2021

**Revision Date** 08-Feb-2023

**Version** 3.4

**Page** 14 / 16

**California Proposition 65**

This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

This product may contain substances regulated by state right-to-know regulations.

| Chemical name  | New Jersey | Massachusetts | Pennsylvania |
|--|------------|---------------|--------------|
| Sodium sulfate<br>7757-82-6                          | -          | X             | X            |
| Potassium nitrate<br>7757-79-1                       | X          | X             | X            |
| Sulfuric acid, copper(2+) salt<br>(1:1)<br>7758-98-7 | X          | X             | X            |
| Diammonium sulfate<br>7783-20-2                      | -          | X             | X            |

**U.S. EPA Label Information**

| Chemical name                        | FIFRA    | FDA             |
|--------------------------------------|----------|-----------------|
| Sodium sulfate                       | -        | 21 CFR 186.1797 |
| Sulfuric acid, copper(2+) salt (1:1) | -        | 21 CFR 184.1261 |
| Diammonium sulfate                   | 180.0910 | 21 CFR 184.1143 |

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

**Special Comments**

None

**Additional information**

**Global Automotive Declarable Substance List (GADSL)**

| Chemical name                                     | Global Automotive Declarable Substance List Classifications | Global Automotive Declarable Substance List Thresholds |
|---|---|--|
| Sulfuric acid, copper(2+) salt (1:1)<br>7758-98-7 | Declarable Substance (LR)<br>Prohibited Substance (LR)      | None reported  |

**NFPA and HMIS Classifications**

| NFPA | Health hazards - 0 | Flammability - 0 | Instability - 0      | Physical and chemical properties - |
|------|--------------------|------------------|----------------------|------------------------------------|
| HMIS | Health hazards - 0 | Flammability - 0 | Physical hazards - 0 | Personal protection -<br>X<br>-1   |

**Key or legend to abbreviations and acronyms used in the safety data sheet**

- ACGIH ACGIH (American Conference of Governmental Industrial Hygienists)
- ATSDR ATSDR (Agency for Toxic Substances and Disease Registry)
- CCRIS CCRIS (Chemical Carcinogenesis Research Information System)
- CDC CDC (Center for Disease Control)
- CEPA CEPA (Canadian Environmental Protection Agency)
- CICAD CICAD (Concise International Chemical Assessment Documents)
- ECHA ECHA (The European Chemicals Agency)

**Product Code(s)** 2833249

**Product Name** Wastewater Effluent Inorganics Quality Control Standard

**Issue Date** 27-Apr-2021

**Revision Date** 08-Feb-2023

**Version** 3.4

**Page** 15 / 16

|             |   |
|-------------|---|
| EEA         | EEA (European Environment Agency)   |
| EPA         | EPA (Environmental Protection Agency)   |
| ERMA        | ERMA (New Zealands Environmental Risk Management Authority)                                 |
| ECOSARS     | Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite™     |
| FDA         | FDA (Food & Drug Administration)  |
| GESTIS      | GESTIS (Information System on Hazardous Substances of the German Social Accident Insurance) |
| HSDB        | HSDB (Hazardous Substances Data Bank)   |
| INERIS      | INERIS (The National Industrial Environment and Risks Institute)                            |
| IPCS INCHEM | IPCS INCHEM (International Programme on Chemical Safety)                                    |
| IUCLID      | IUCLID (The International Uniform Chemical Information Database)                            |
| NITE        | Japan National Institute of Technology and Evaluation (NITE)                                |
| NIH         | NIH (National Institutes of Health)   |
| NIOSH       | NIOSH (National Institute for Occupational Safety and Health)                               |
| LOLI        | LOLI (List of Lists - An International Chemical Regulatory Database)                        |
| NDF         | no data   |
| NICNAS      | Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)         |
| NIOSH IDLH  | Immediately Dangerous to Life or Health   |
| OSHA        | OSHA (Occupational Safety and Health Administration of the US Department of Labor)          |
| PEEN        | PEEN (Pan European Ecological Network)  |
| RTECS       | RTECS (Registry of Toxic Effects of Chemical Substances)                                    |
| SIDS        | SIDS (Screening Information Dataset) for High Volume Chemicals                              |
| SYKE        | The Finnish Environment Institute (SYKE)  |
| USDA        | USDA (United States Department of Agriculture)  |
| USDC        | USDC (United States Department of Commerce)   |
| WHO         | WHO (World Health Organization)   |

**Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

|      |                                 |         |   |
|------|---------------------------------|---------|---|
| TWA  | TWA (time-weighted average)     | STEL    | STEL (Short Term Exposure Limit)  |
| MAC  | Maximum Allowable Concentration | Ceiling | Ceiling Limit Value   |
| X    | Listed                          | Vacated | These values have no official status. The only binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state regulations. |
| SKN* | Skin designation                | SKN+    | Skin sensitization  |
| RSP+ | Respiratory sensitization       | **      | Hazard Designation  |
| C    | Carcinogen                      | R       | Reproductive toxicant   |
| M    | mutagen                         |         |   |

**Prepared By** Hach Product Compliance Department

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**Revision Note** None

**Disclaimer**

**USER RESPONSIBILITY:** Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

**THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE**

**Product Code(s)** 2833249

**Issue Date** 27-Apr-2021

**Version** 3.4

**Product Name** Wastewater Effluent Inorganics Quality Control  
Standard

**Revision Date** 08-Feb-2023

**Page** 16 / 16

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**End of Safety Data Sheet**