

Safety Data Sheet

acc. to OSHA HCS

Printing date 12/30/2024

Reviewed on 12/30/2024

1 Identification

- **Product identifier**
- **Trade name:** 5.0 mg/L 9 Metal
IP 501 Working Solution
- **Article number:** SAY041
- **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

Specific Target Organ Toxicity - Repeated Exposure 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Skin Irritation 2

H315 Causes skin irritation.

Eye Irritation 2A

H319 Causes serious eye irritation.

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



GHS07



GHS08

- **Signal word** Warning
- **Hazard-determining components of labeling:**
Hydrochloric Acid
- **Hazard statements**
Causes skin irritation.
Causes serious eye irritation.
May cause damage to organs through prolonged or repeated exposure.
- **Precautionary statements**
Do not breathe dust/fume/gas/mist/vapors/spray.

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Wash thoroughly after handling.

Wear protective gloves / eye protection / face protection.

If on skin: Wash with plenty of water.

Specific treatment (see on this label).

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Get medical advice/attention if you feel unwell.

Take off contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

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

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 0

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = *2

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: 7647-01-0 | Hydrochloric Acid | 2.343% |
| CAS: 7697-37-2 | Nitric Acid | 0.161% |

· **Table of Nonhazardous Ingredients**

| | | |
|-----------------|------------------------------|---------|
| CAS: 7732-18-5 | Water | 96.827% |
| CAS: 12007-60-2 | Lithium Tetraborate, Reagent | 0.36% |
| CAS: 87-69-4 | L-Tartaric Acid | 0.248% |
| CAS: 7789-24-4 | Lithium Fluoride | 0.04% |
| CAS: 7784-27-2 | Aluminum Nitrate | 0.007% |
| CAS: 16919-19-0 | Ammonium hexafluorosilicate | 0.003% |
| CAS: 13477-34-4 | Calcium Nitrate Tetrahydrate | 0.003% |
| CAS: 10196-18-6 | Zinc Nitrate, Reagent Grade | 0.002% |
| CAS: 7783-28-0 | Ammonium Phosphate Dibasic | 0.002% |
| CAS: 7631-99-4 | Sodium Nitrate | 0.002% |
| CAS: 1314-62-1 | Vanadium Pentoxide Reagent | 0.001% |
| CAS: 7439-89-6 | Iron Metal | 0.001% |

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CAS: 7440-02-0 Nickel Metal

0.0005%

4 First-aid measures

- **Description of first aid measures**
- **General information:**
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:** 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. If symptoms persist, 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**
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:** No special measures required.
- **Methods and material for containment and cleaning up:**
Dispose contaminated material as waste according to section 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: 7647-01-0 | Hydrochloric Acid | 1.8 ppm |
| CAS: 12007-60-2 | Lithium Tetraborate, Reagent | 4.3 mg/m ³ |
| CAS: 87-69-4 | L-Tartaric Acid | 1.6 mg/m ³ |
| CAS: 7697-37-2 | Nitric Acid | 0.16 ppm |
| CAS: 7789-24-4 | Lithium Fluoride | 10 mg/m ³ |
| CAS: 7784-27-2 | Aluminum Nitrate | 83 mg/m ³ |

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| | | |
|-----------------|------------------------------|------------------------|
| CAS: 16919-19-0 | Ammonium hexafluorosilicate | 12 mg/m ³ |
| CAS: 13477-34-4 | Calcium Nitrate Tetrahydrate | 12 mg/m ³ |
| CAS: 10196-18-6 | Zinc Nitrate, Reagent Grade | 27 mg/m ³ |
| CAS: 7783-28-0 | Ammonium Phosphate Dibasic | 20 mg/m ³ |
| CAS: 7631-99-4 | Sodium Nitrate | 4.1 mg/m ³ |
| CAS: 1314-62-1 | Vanadium Pentoxide Reagent | 0.64 mg/m ³ |
| CAS: 7439-89-6 | Iron Metal | 3.2 mg/m ³ |
| CAS: 7440-02-0 | Nickel Metal | 4.5 mg/m ³ |

· PAC-2:

| | | |
|-----------------|------------------------------|-----------------------|
| CAS: 7647-01-0 | Hydrochloric Acid | 22 ppm |
| CAS: 12007-60-2 | Lithium Tetraborate, Reagent | 47 mg/m ³ |
| CAS: 87-69-4 | L-Tartaric Acid | 17 mg/m ³ |
| CAS: 7697-37-2 | Nitric Acid | 24 ppm |
| CAS: 7789-24-4 | Lithium Fluoride | 110 mg/m ³ |
| CAS: 7784-27-2 | Aluminum Nitrate | 920 mg/m ³ |
| CAS: 16919-19-0 | Ammonium hexafluorosilicate | 130 mg/m ³ |
| CAS: 13477-34-4 | Calcium Nitrate Tetrahydrate | 130 mg/m ³ |
| CAS: 10196-18-6 | Zinc Nitrate, Reagent Grade | 300 mg/m ³ |
| CAS: 7783-28-0 | Ammonium Phosphate Dibasic | 39 ppm |
| CAS: 7631-99-4 | Sodium Nitrate | 45 mg/m ³ |
| CAS: 1314-62-1 | Vanadium Pentoxide Reagent | 7 mg/m ³ |
| CAS: 7439-89-6 | Iron Metal | 35 mg/m ³ |
| CAS: 7440-02-0 | Nickel Metal | 50 mg/m ³ |

· PAC-3:

| | | |
|-----------------|------------------------------|-------------------------|
| CAS: 7647-01-0 | Hydrochloric Acid | 100 ppm |
| CAS: 12007-60-2 | Lithium Tetraborate, Reagent | 280 mg/m ³ |
| CAS: 87-69-4 | L-Tartaric Acid | 100 mg/m ³ |
| CAS: 7697-37-2 | Nitric Acid | 92 ppm |
| CAS: 7789-24-4 | Lithium Fluoride | 680 mg/m ³ |
| CAS: 7784-27-2 | Aluminum Nitrate | 5,500 mg/m ³ |
| CAS: 16919-19-0 | Ammonium hexafluorosilicate | 780 mg/m ³ |
| CAS: 13477-34-4 | Calcium Nitrate Tetrahydrate | 770 mg/m ³ |
| CAS: 10196-18-6 | Zinc Nitrate, Reagent Grade | 1,800 mg/m ³ |
| CAS: 7783-28-0 | Ammonium Phosphate Dibasic | 240 ppm |
| CAS: 7631-99-4 | Sodium Nitrate | 270 mg/m ³ |
| CAS: 1314-62-1 | Vanadium Pentoxide Reagent | 70 mg/m ³ |
| CAS: 7439-89-6 | Iron Metal | 150 mg/m ³ |
| CAS: 7440-02-0 | Nickel Metal | 99 mg/m ³ |

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7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **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.
- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

CAS: 7647-01-0 Hydrochloric Acid

| | |
|------------------------------------|--|
| NIOSH RECOMMENDED EXP LIMIT | Ceiling limit value: 7.0 mg/m ³ mg/m ³ |
| PEL | Ceiling limit value: 7 mg/m ³ , 5 ppm |
| REL | Ceiling limit value: 7 mg/m ³ , 5 ppm |
| TLV | Ceiling limit value: 2 ppm A4 |

CAS: 7697-37-2 Nitric Acid

| | |
|------------|--|
| PEL | Long-term value: 5 mg/m ³ , 2 ppm |
| REL | Short-term value: 10 mg/m ³ , 4 ppm Long-term value: 5 mg/m ³ , 2 ppm |
| TLV | Short-term value: (4) NIC-0.025 ppm Long-term value: (2) ppm NIC-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.
 - Immediately remove all soiled and contaminated clothing.
 - Wash hands before breaks and at the end of work.
 - Store protective clothing separately.
 - Avoid contact with the eyes and skin.
- **Breathing equipment:**
 - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves

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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:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

| | |
|------------------------|------------------------------|
| Form: | Liquid |
| Color: | Clear to pale colored liquid |
| Odor: | Odorless |
| Odor threshold: | Not determined. |

· **pH-value:** Not applicable.

· **Change in condition**

| | |
|-------------------------------------|-----------------|
| Melting point/Melting range: | 0 °C (32 °F) |
| Boiling point/Boiling range: | 100 °C (212 °F) |

· **Flash point:** Not applicable.

· **Flammability:** Not determined.

· **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): | 1.00243 g/cm ³ (8.36528 lbs/gal) |
| Relative density | Not determined. |
| Vapor density | Not applicable. |
| Evaporation rate | Not applicable. |

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- | | |
|---|--|
| · Solubility in / Miscibility with Water: | Soluble. |
| · Partition coefficient (n-octanol/water): | Not determined. |
| · Viscosity: | |
| Dynamic: | Not applicable. |
| Kinematic: | Not applicable. |
| · Solvent content: | |
| Water: | 96.8 % |
| VOC content: | 0.00 % |
| · Solids content: | 100.0 % |
| · 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 | 1,864 mg/l |
|------------|---------|------------|

- **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.

- **on the eye:** Irritating effect.

- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

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

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

| | | |
|----------------|----------------------------|----|
| CAS: 7789-24-4 | Lithium Fluoride | 3 |
| CAS: 1314-62-1 | Vanadium Pentoxide Reagent | 2B |
| CAS: 7440-02-0 | Nickel Metal | 2B |

- **NTP (National Toxicology Program)**

| | | |
|----------------|--------------|---|
| CAS: 7440-02-0 | Nickel Metal | R |
|----------------|--------------|---|

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· **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.

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 |
| · 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. |

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· 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):**

| | |
|----------------|----------------------------|
| CAS: 7697-37-2 | Nitric Acid |
| CAS: 1314-62-1 | Vanadium Pentoxide Reagent |

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

| | |
|-----------------|------------------------------|
| CAS: 7697-37-2 | Nitric Acid |
| CAS: 7784-27-2 | Aluminum Nitrate |
| CAS: 13477-34-4 | Calcium Nitrate Tetrahydrate |
| CAS: 10196-18-6 | Zinc Nitrate, Reagent Grade |
| CAS: 1314-62-1 | Vanadium Pentoxide Reagent |
| CAS: 7440-02-0 | Nickel Metal |

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

| | |
|------------------------------|--------|
| Water | ACTIVE |
| Hydrochloric Acid | ACTIVE |
| Lithium Tetraborate, Reagent | ACTIVE |
| L-Tartaric Acid | ACTIVE |
| Nitric Acid | ACTIVE |
| Lithium Fluoride | ACTIVE |
| Ammonium hexafluorosilicate | ACTIVE |
| Ammonium Phosphate Dibasic | ACTIVE |
| Sodium Nitrate | ACTIVE |
| Vanadium Pentoxide Reagent | ACTIVE |
| Iron Metal | ACTIVE |
| Nickel Metal | ACTIVE |

· **Hazardous Air Pollutants**

| | |
|----------------|-------------------|
| CAS: 7647-01-0 | Hydrochloric Acid |
|----------------|-------------------|

· **Proposition 65**

· **Chemicals known to cause cancer:**

| | |
|----------------|----------------------------|
| CAS: 1314-62-1 | Vanadium Pentoxide Reagent |
| CAS: 7440-02-0 | Nickel Metal |

· **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.

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· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

| | | |
|-----------------|------------------------------|----------|
| CAS: 12007-60-2 | Lithium Tetraborate, Reagent | I (oral) |
|-----------------|------------------------------|----------|

· **TLV (Threshold Limit Value)**

| | | |
|----------------|----------------------------|----|
| CAS: 7789-24-4 | Lithium Fluoride | A4 |
| CAS: 1314-62-1 | Vanadium Pentoxide Reagent | A3 |
| CAS: 7440-02-0 | Nickel Metal | A5 |

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

| | |
|----------------|--------------|
| CAS: 7440-02-0 | Nickel Metal |
|----------------|--------------|

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

· **Hazard pictograms**



GHS07 GHS08

· **Signal word** Warning

· **Hazard-determining components of labeling:**

Hydrochloric Acid

· **Hazard statements**

Causes skin irritation.

Causes serious eye irritation.

May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

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

Wash thoroughly after handling.

Wear protective gloves / eye protection / face protection.

If on skin: Wash with plenty of water.

Specific treatment (see on this label).

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Get medical advice/attention if you feel unwell.

Take off contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

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:

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· Date of preparation / last revision

Revision 0.0, 12-30-2024: Creation date for SDS CMC/STN
12/30/2024 / 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

Skin Irritation 2: Skin corrosion/irritation – Category 2

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2

· * Data compared to the previous version altered.

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