

# Safety Data Sheet

acc. to OSHA HCS

Printing date 10/21/2021

Reviewed on 10/21/2021

## 1 Identification

- **Product identifier**
- **Trade name:** 50.0 mg/L 14 Component  
Mixed Metal Working Solution
- **Article number:** SAY006
- **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](mailto: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. 3 H331 Toxic if inhaled.



GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

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



GHS05 GHS06

- **Signal word** Danger
- **Hazard-determining components of labeling:**  
Hydrochloric Acid  
Nitric Acid
- **Hazard statements**  
Toxic if inhaled.

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*Causes skin irritation.*

*Causes serious eye damage.*

**· Precautionary statements**

*Avoid breathing dust/fume/gas/mist/vapors/spray*

*Wash thoroughly after handling.*

*Use only outdoors or in a well-ventilated area.*

*Wear protective gloves / eye protection / face protection.*

*If on skin: Wash with plenty of water.*

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

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

*Continue rinsing.*

*Immediately call a poison center/doctor.*

*Specific treatment (see on this label).*

*Take off contaminated clothing and wash it before reuse.*

*If skin irritation occurs: Get medical advice/attention.*

*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.*

**· Classification system:**

**· NFPA ratings (scale 0 - 4)**



Health = 3

Fire = 0

Reactivity = 0

**· HMIS-ratings (scale 0 - 4)**



Health = \*3

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 | 3.28%  |
| CAS: 7697-37-2 | Nitric Acid       | 0.514% |

**· Table of Nonhazardous Ingredients**

|                 |                              |         |
|-----------------|------------------------------|---------|
| CAS: 7732-18-5  | Water                        | 95.435% |
| CAS: 12007-60-2 | Lithium Tetraborate, Reagent | 0.36%   |
| CAS: 87-69-4    | L-Tartaric Acid              | 0.347%  |
| CAS: 7789-24-4  | Lithium Fluoride             | 0.04%   |
| CAS: 19004-19-4 | Cupric Nitrate Hydrate       | 0.018%  |

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CAS: 7440-38-2 arsenic

0.005%

## 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.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Use neutralizing agent.  
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-I:**

CAS: 7647-01-0 Hydrochloric Acid

1.8 ppm

CAS: 7697-37-2 Nitric Acid

0.16 ppm

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|                 |                              |                       |
|-----------------|------------------------------|-----------------------|
| CAS: 12007-60-2 | Lithium Tetraborate, Reagent | 4.3 mg/m <sup>3</sup> |
| CAS: 87-69-4    | L-Tartaric Acid              | 1.6 mg/m <sup>3</sup> |
| CAS: 7789-24-4  | Lithium Fluoride             | 10 mg/m <sup>3</sup>  |
| CAS: 19004-19-4 | Cupric Nitrate Hydrate       | 42 mg/m <sup>3</sup>  |
| CAS: 7440-38-2  | arsenic                      | 1.5 mg/m <sup>3</sup> |

· **PAC-2:**

|                 |                              |                       |
|-----------------|------------------------------|-----------------------|
| CAS: 7647-01-0  | Hydrochloric Acid            | 22 ppm                |
| CAS: 7697-37-2  | Nitric Acid                  | 24 ppm                |
| CAS: 12007-60-2 | Lithium Tetraborate, Reagent | 47 mg/m <sup>3</sup>  |
| CAS: 87-69-4    | L-Tartaric Acid              | 17 mg/m <sup>3</sup>  |
| CAS: 7789-24-4  | Lithium Fluoride             | 110 mg/m <sup>3</sup> |
| CAS: 19004-19-4 | Cupric Nitrate Hydrate       | 150 mg/m <sup>3</sup> |
| CAS: 7440-38-2  | arsenic                      | 17 mg/m <sup>3</sup>  |

· **PAC-3:**

|                 |                              |                       |
|-----------------|------------------------------|-----------------------|
| CAS: 7647-01-0  | Hydrochloric Acid            | 100 ppm               |
| CAS: 7697-37-2  | Nitric Acid                  | 92 ppm                |
| CAS: 12007-60-2 | Lithium Tetraborate, Reagent | 280 mg/m <sup>3</sup> |
| CAS: 87-69-4    | L-Tartaric Acid              | 100 mg/m <sup>3</sup> |
| CAS: 7789-24-4  | Lithium Fluoride             | 680 mg/m <sup>3</sup> |
| CAS: 19004-19-4 | Cupric Nitrate Hydrate       | 240 mg/m <sup>3</sup> |
| CAS: 7440-38-2  | arsenic                      | 100 mg/m <sup>3</sup> |

## 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.

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· **Control parameters**

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

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

|                          |  |
|--------------------------|--|
| NIOSH RECOMENDED EXP LIM | Ceiling limit value: 7.0 mg/m <sup>3</sup> mg/m <sup>3</sup> |
| PEL                      | Ceiling limit value: 7 mg/m <sup>3</sup> , 5 ppm             |
| REL                      | Ceiling limit value: 7 mg/m <sup>3</sup> , 5 ppm             |
| TLV                      | Ceiling limit value: 2 ppm<br>A4                             |

**CAS: 7697-37-2 Nitric Acid**

|     |  |
|-----|--|
| PEL | Long-term value: 5 mg/m <sup>3</sup> , 2 ppm   |
| REL | Short-term value: 10 mg/m <sup>3</sup> , 4 ppm<br>Long-term value: 5 mg/m <sup>3</sup> , 2 ppm |
| TLV | Short-term value: 4 ppm<br>Long-term value: 2 ppm  |

· **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 skin.

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

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.

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· **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:**

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

· **pH-value:** Not determined.· **Change in condition**

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

· **Flash point:** Not applicable.· **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:**

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

· **Vapor pressure at 20 °C (68 °F):** 23 hPa (17.3 mm Hg)· **Density at 20 °C (68 °F):** 1.00791 g/cm<sup>3</sup> (8.41101 lbs/gal)· **Relative density** Not determined.· **Vapor density** Not determined.· **Evaporation rate** Not determined.· **Solubility in / Miscibility with**

|               |                 |
|---------------|-----------------|
| <b>Water:</b> | 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>       | 95.4 %                |
| <b>VOC content:</b> | 0.00 %                |
|                     | 0.0 g/l / 0.00 lb/gal |

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|                        |       |
|------------------------|-------|
| <b>Solids content:</b> | 0.8 % |
|------------------------|-------|

|                          |  |
|--------------------------|--|
| <b>Other information</b> | 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 | 9.7 mg/l |
|------------|---------|----------|

- **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

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

Toxic

Irritant

- **Carcinogenic categories**

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

|                |                  |   |
|----------------|------------------|---|
| CAS: 7789-24-4 | Lithium Fluoride | 3 |
|----------------|------------------|---|

|                |         |   |
|----------------|---------|---|
| CAS: 7440-38-2 | arsenic | 1 |
|----------------|---------|---|

- **NTP (National Toxicology Program)**

|                |         |   |
|----------------|---------|---|
| CAS: 7440-38-2 | arsenic | K |
|----------------|---------|---|

- **OSHA-Ca (Occupational Safety & Health Administration)**

|                |         |  |
|----------------|---------|--|
| CAS: 7440-38-2 | arsenic |  |
|----------------|---------|--|

## 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.

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- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.  
Must not reach bodies of water or drainage ditch undiluted or unneutralized.
- **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

- |   |   |
|---|---|
| <b>· UN-Number</b>  | UN3264  |
| <b>· DOT, IMDG, IATA</b>  |   |
| <b>· UN proper shipping name</b>  | Corrosive liquid, acidic, inorganic, n.o.s. (Nitric acid) |
| <b>· DOT</b>  | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID) |
| <b>· IMDG, IATA</b>   |   |
| <b>· Transport hazard class(es)</b>   |   |
| <b>· DOT</b>  |   |
|  |   |
| <b>· Class</b>  | 8 Corrosive substances                                    |
| <b>· Label</b>  | 8   |
|   |   |
| <b>· IMDG, IATA</b>   |   |
|  |   |
| <b>· Class</b>  | 8 Corrosive substances                                    |
| <b>· Label</b>  | 8   |
| <b>· Packing group</b>  | III   |
| <b>· DOT, IMDG, IATA</b>  |   |
| <b>· Environmental hazards:</b>   | Not applicable.   |

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|  |   |
|--|---|
| · <b>Special precautions for user</b>  | Warning: Corrosive substances   |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable.   |
| · <b>UN "Model Regulation":</b>  | UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID), 8, III |

## 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 |
|----------------|-------------|

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

|                |             |
|----------------|-------------|
| CAS: 7697-37-2 | Nitric Acid |
|----------------|-------------|

|                |         |
|----------------|---------|
| CAS: 7440-38-2 | arsenic |
|----------------|---------|

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

|                              |        |
|------------------------------|--------|
| Water                        | ACTIVE |
| Hydrochloric Acid            | ACTIVE |
| Nitric Acid                  | ACTIVE |
| Lithium Tetraborate, Reagent | ACTIVE |
| L-Tartaric Acid              | ACTIVE |
| Lithium Fluoride             | ACTIVE |
| arsenic                      | ACTIVE |

· **Hazardous Air Pollutants**

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

· **Proposition 65**

· **Chemicals known to cause cancer:**

|                |         |
|----------------|---------|
| CAS: 7440-38-2 | arsenic |
|----------------|---------|

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

|                |         |   |
|----------------|---------|---|
| CAS: 7440-38-2 | arsenic | A |
|----------------|---------|---|

· **TLV (Threshold Limit Value)**

|                |                  |    |
|----------------|------------------|----|
| CAS: 7789-24-4 | Lithium Fluoride | A4 |
|----------------|------------------|----|

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CAS: 7440-38-2 arsenic

AI

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

CAS: 7440-38-2 arsenic

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

· **Hazard pictograms**



GHS05 GHS06

· **Signal word** Danger

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

Hydrochloric Acid

Nitric Acid

· **Hazard statements**

Toxic if inhaled.

Causes skin irritation.

Causes serious eye damage.

· **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves / eye protection / face protection.

If on skin: Wash with plenty of water.

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

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

Continue rinsing.

Immediately call a poison center/doctor.

Specific treatment (see on this label).

Take off contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

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**

Revision 0.0 10-22-2021: Creation date for SDS. STN

10/21/2021 / 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

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*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**Acute Tox. 3: Acute toxicity – Category 3**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Dam. 1: Serious eye damage/eye irritation – Category 1***\* Data compared to the previous version altered.**

US