# Safety Data Sheet acc. to OSHA HCS

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**1** Identification

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Trade name: 0.0 mg/L IP 501 Metal Working Solution	
Article number: SAY040	
Details of the supplier of the safety data Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586	sheet
Information department: Technical Coordinator Sherman Nelson shermann@aquasolutio Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666	ons.org
Hazard(s) identification	
Classification of the substance or mixtu	ro
GHS08 Health hazard	
GHS08 Health hazard	ed Exposure 2 H373 May cause damage to organs through prolon repeated exposure.
GHS08 Health hazard Specific Target Organ Toxicity - Repeate GHS07	ed Exposure 2 H373 May cause damage to organs through prolon repeated exposure.
GHS08 Health hazard Specific Target Organ Toxicity - Repeate GHS07 Skin Irritation 2 Eye Irritation 2A	ed Exposure 2 H373 May cause damage to organs through prolon
GHS08 Health hazard Specific Target Organ Toxicity - Repeate GHS07 Skin Irritation 2 Eye Irritation 2A Label elements GHS label elements The product is class Hazard pictograms	ed Exposure 2 H373 May cause damage to organs through prolon repeated exposure. H315 Causes skin irritation.
GHS08 Health hazard Specific Target Organ Toxicity - Repeate GHS07 Skin Irritation 2 Eye Irritation 2A Label elements GHS label elements The product is class Hazard pictograms	ed Exposure 2 H373 May cause damage to organs through prolon repeated exposure. H315 Causes skin irritation. H319 Causes serious eye irritation.
GHS08 Health hazard Specific Target Organ Toxicity - Repeate GHS07 Skin Irritation 2 Eye Irritation 2A Label elements GHS label elements The product is class Hazard pictograms	ed Exposure 2 H373 May cause damage to organs through prolon repeated exposure. H315 Causes skin irritation. H319 Causes serious eye irritation. sified and labeled according to the Globally Harmonized System (C

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(Contd. of page 1) 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* = 2Fire = 0Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH \*2 *Health* = \*2 Fire = 00 FIRE **REACTIVITY O** 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 comp	onents:	
CAS: 7647-01-0	Hydrochloric Acid	2.343%
• Table of Nonhaza	rdous Ingredients	
CAS: 7732-18-5	Water	97.009%
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%

# 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.

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- 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.
- $\cdot$  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: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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 <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>
· PAC-2:		
CAS: 7647-01-0	Hydrochloric Acid	22 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>
· PAC-3:		
CAS: 7647-01-0	Hydrochloric Acid	100 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>

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#### 7 Handling and storage

- · Handling:
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. 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 section 7.
- · Control parameters

connot parameters		
• Components with limit values that require monitoring at the workplace:		
CAS: 7647-01-0 Hydrochloric Acid		
NIOSH RECOMENDED EXP LIMI	Ceiling limit value: 7.0 mg/m3 mg/m <sup>3</sup>	
PEL	Ceiling limit value: 7 mg/m³, 5 ppm	
REL	Ceiling limit value: 7 mg/m³, 5 ppm	
TLV	Ceiling limit value: 2 ppm	

• Additional information: The lists that were valid during the creation were used as basis.

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#### · 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

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 (Contd. on page 5)

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### • Material of gloves

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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

Appearance:	<b>7</b> · · · <b>7</b>	
Form:	Liquid	
Color: Odor:	Colorless Odorless	
Oaor: Odor threshold:	Oaoriess Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	0 °C (32 °F)	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability:	Not applicable.	
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):	1.00168 g/cm <sup>3</sup> (8.35902 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	

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· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Water:	97.0 %	
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
Solids content:	0.7 %	
• 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:
- · 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
- · NTP (National Toxicology Program)

None of the ingredients is listed.

#### · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

# **12 Ecological information**

· Toxicity

- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.

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- · Behavior in environmental systems:
- $\cdot \textit{Bioaccumulative potential No further relevant information available}.$
- *Mobility in soil* No further relevant information available.
- $\cdot$  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.

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.
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.

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- $\cdot$  Section 355 (extremely hazardous substances):
- None of the ingredients is listed.

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Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
TSCA (Toxic Substances Control Act):	
Water	ACTIVE
Hydrochloric Acid	ACTIVE
Lithium Tetraborate, Reagent	ACTIVE
L-Tartaric Acid	ACTIVE
Lithium Fluoride	ACTIVE
Hazardous Air Pollutants	
CAS: 7647-01-0 Hydrochloric Acid	
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)	

· TLV (Threshold Limit Value)

CAS: 7789-24-4 Lithium Fluoride

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

None of the ingredients is listed.

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



· Signal word 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.

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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: · Date of preparation / last revision Revision 0.0, 12-30-2024: Creation date for SDS CMC/STN 12/30/2024 / -· 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) 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

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