Safety Data Sheet
acc. to OSHA HCS

Printing date 05/24/2024 *Reviewed on 05/24/2024*

1 Identification

· **Product identifier**

· **Trade name: Brine Method High Std 1ug/ml**
Metals 177.1 ug/ml Na_2SO_4 Analytical Reference Std.

· **Article number:** ODP117

· **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
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.

GHS05 Corrosion

Skin Corrosion 1A H314 Causes severe skin burns and eye damage.
Eye Damage 1 H318 Causes serious eye damage.

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

GHS05 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**
Hydrochloric Acid
· **Hazard statements**
Causes severe skin burns and eye damage.
May cause damage to organs through prolonged or repeated exposure.

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· **Precautionary statements**
Do not breathe dusts or mists.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Rinse mouth. Do NOT induce vomiting.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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).
Get medical advice/attention if you feel unwell.
Wash contaminated clothing before reuse.
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	8.0%

· **Table of Nonhazardous Ingredients**		
CAS: 7732-18-5	Water	88.912%
CAS: 7647-14-5	Sodium Chloride	3.0%
CAS: 7697-37-2	Nitric Acid	0.05%
CAS: 7757-82-6	Sodium Sulfate Anhydrous	0.018%
CAS: 87-69-4	L-Tartaric Acid	0.009%
CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution	0.009%
CAS: 7439-89-6	Iron Metal	0.0001%
CAS: 7439-92-1	lead powder [particle diameter < 1 mm]	0.0001%
CAS: 7439-93-2	lithium	0.0001%

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CAS: 7439-95-4	Magnesium	0.0001%
CAS: 7439-96-5	manganese	0.0001%
CAS: 7439-98-7	Molybdenum Metal, 99.8%	0.0001%
CAS: 7440-02-0	Nickel Metal	0.0001%
CAS: 7440-24-6	strontium	0.0001%
CAS: 7440-28-0	thallium	0.0001%
CAS: 7440-32-6	Titanium Metal	0.0001%
CAS: 7440-36-0	Antimony Metal	0.0001%
CAS: 7440-38-2	arsenic	0.0001%
CAS: 7440-41-7	beryllium	0.0001%
CAS: 7440-43-9	cadmium Metal	0.0001%
CAS: 7440-47-3	chromium	0.0001%
CAS: 7440-48-4	cobalt	0.0001%
CAS: 7440-50-8	copper	0.0001%
CAS: 7440-62-2	vanadium	0.0001%
CAS: 7440-66-6	Zinc Metal	0.0001%
CAS: 7440-70-2	Calcium Metal	0.0001%
CAS: 7782-49-2	selenium	0.0001%

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. Then consult a doctor.
· **After swallowing:** Drink copious amounts of water and provide fresh air. Immediately call a 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.

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6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
· **Environmental precautions:** 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 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: 7697-37-2	Nitric Acid	0.16 ppm
CAS: 7757-82-6	Sodium Sulfate Anhydrous	9.8 mg/m³
CAS: 87-69-4	L-Tartaric Acid	1.6 mg/m³
CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution	1.0 ppm
CAS: 7439-89-6	Iron Metal	3.2 mg/m³
CAS: 7439-92-1	lead powder [particle diameter < 1 mm]	0.15 mg/m³
CAS: 7439-93-2	lithium	3.3 mg/m³
CAS: 7439-95-4	Magnesium	18 mg/m³
CAS: 7439-96-5	manganese	3 mg/m³
CAS: 7439-98-7	Molybdenum Metal, 99.8%	30 mg/m³
CAS: 7440-02-0	Nickel Metal	4.5 mg/m³
CAS: 7440-24-6	strontium	30 mg/m³
CAS: 7440-28-0	thallium	0.06 mg/m³
CAS: 7440-32-6	Titanium Metal	30 mg/m³
CAS: 7440-36-0	Antimony Metal	1.5 mg/m³
CAS: 7440-38-2	arsenic	1.5 mg/m³
CAS: 7440-41-7	beryllium	0.0023 mg/m³
CAS: 7440-43-9	cadmium Metal	0.10 mg/m³
CAS: 7440-47-3	chromium	1.5 mg/m³
CAS: 7440-48-4	cobalt	0.18 mg/m³
CAS: 7440-50-8	copper	3 mg/m³
CAS: 7440-62-2	vanadium	3 mg/m³
CAS: 7440-66-6	Zinc Metal	6 mg/m³
CAS: 7782-49-2	selenium	0.6 mg/m³

· **PAC-2:**		
CAS: 7647-01-0	Hydrochloric Acid	22 ppm
CAS: 7697-37-2	Nitric Acid	24 ppm

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CAS: 7757-82-6	Sodium Sulfate Anhydrous	110 mg/m³
CAS: 87-69-4	L-Tartaric Acid	17 mg/m³
CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution	24 ppm
CAS: 7439-89-6	Iron Metal	35 mg/m³
CAS: 7439-92-1	lead powder [particle diameter < 1 mm]	120 mg/m³
CAS: 7439-93-2	lithium	36 mg/m³
CAS: 7439-95-4	Magnesium	200 mg/m³
CAS: 7439-96-5	manganese	5 mg/m³
CAS: 7439-98-7	Molybdenum Metal, 99.8%	330 mg/m³
CAS: 7440-02-0	Nickel Metal	50 mg/m³
CAS: 7440-24-6	strontium	330 mg/m³
CAS: 7440-28-0	thallium	3.3 mg/m³
CAS: 7440-32-6	Titanium Metal	330 mg/m³
CAS: 7440-36-0	Antimony Metal	13 mg/m³
CAS: 7440-38-2	arsenic	17 mg/m³
CAS: 7440-41-7	beryllium	0.025 mg/m³
CAS: 7440-43-9	cadmium Metal	0.76 mg/m³
CAS: 7440-47-3	chromium	17 mg/m³
CAS: 7440-48-4	cobalt	2 mg/m³
CAS: 7440-50-8	copper	33 mg/m³
CAS: 7440-62-2	vanadium	5.8 mg/m³
CAS: 7440-66-6	Zinc Metal	21 mg/m³
CAS: 7782-49-2	selenium	6.6 mg/m³

· **PAC-3:**

CAS: 7647-01-0	Hydrochloric Acid	100 ppm
CAS: 7697-37-2	Nitric Acid	92 ppm
CAS: 7757-82-6	Sodium Sulfate Anhydrous	650 mg/m³
CAS: 87-69-4	L-Tartaric Acid	100 mg/m³
CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution	44 ppm
CAS: 7439-89-6	Iron Metal	150 mg/m³
CAS: 7439-92-1	lead powder [particle diameter < 1 mm]	700 mg/m³
CAS: 7439-93-2	lithium	220 mg/m³
CAS: 7439-95-4	Magnesium	1,200 mg/m³
CAS: 7439-96-5	manganese	1,800 mg/m³
CAS: 7439-98-7	Molybdenum Metal, 99.8%	2,000 mg/m³
CAS: 7440-02-0	Nickel Metal	99 mg/m³
CAS: 7440-24-6	strontium	2,000 mg/m³
CAS: 7440-28-0	thallium	20 mg/m³
CAS: 7440-32-6	Titanium Metal	2,000 mg/m³
CAS: 7440-36-0	Antimony Metal	80 mg/m³
CAS: 7440-38-2	arsenic	100 mg/m³
CAS: 7440-41-7	beryllium	0.1 mg/m³

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CAS: 7440-43-9	cadmium Metal	4.7 mg/m³
CAS: 7440-47-3	chromium	99 mg/m³
CAS: 7440-48-4	cobalt	20 mg/m³
CAS: 7440-50-8	copper	200 mg/m³
CAS: 7440-62-2	vanadium	35 mg/m³
CAS: 7440-66-6	Zinc Metal	120 mg/m³
CAS: 7782-49-2	selenium	40 mg/m³

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**

· **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/m³
PEL	Ceiling limit value: 7 mg/m³, 5 ppm
REL	Ceiling limit value: 7 mg/m³, 5 ppm
TLV	Ceiling limit value: 2 ppm 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.
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.

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· **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.

· **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
· **Odor:**	Odorless
· **Odor threshold:**	Not determined.
· **pH-value at 20 °C (68 °F):**	<2
· **Change in condition**	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C (212 °F)
· **Flash point:**	Not applicable.
· **Flammability (solid, gaseous):**	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)

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· **Density at 20 °C (68 °F):**	1.002 g/cm³ (8.36169 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.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic:	Not determined.
· **Solvent content:**	
Water:	88.9 %
VOC content:	0.00 % 0.0 g/l / 0.00 lb/gal
Solids content:	0.0 %
· **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:**
· **Primary irritant effect:**
· **on the skin:** Strong caustic effect on skin and mucous membranes.
· **on the eye:**
Strong caustic effect.
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:
Corrosive
Irritant
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

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· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**		
CAS: 7439-92-1	lead powder [particle diameter < 1 mm]	2B
CAS: 7440-02-0	Nickel Metal	2B
CAS: 7440-38-2	arsenic	1
CAS: 7440-41-7	beryllium	1
CAS: 7440-43-9	cadmium Metal	1
CAS: 7440-47-3	chromium	3
CAS: 7440-48-4	cobalt	2B
CAS: 7782-49-2	selenium	3

· **NTP (National Toxicology Program)**		
CAS: 7439-92-1	lead powder [particle diameter < 1 mm]	R
CAS: 7440-02-0	Nickel Metal	R
CAS: 7440-38-2	arsenic	K
CAS: 7440-41-7	beryllium	K
CAS: 7440-43-9	cadmium Metal	K
CAS: 7440-48-4	cobalt	R

· **OSHA-Ca (Occupational Safety & Health Administration)**	
CAS: 7440-38-2	arsenic
CAS: 7440-43-9	cadmium Metal

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:**
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.
Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

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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.

14 Transport information

· **UN-Number**	
· **DOT, IMDG, IATA**	UN1760
· **UN proper shipping name**	
· **DOT**	Corrosive liquids, n.o.s. (Hydrochloric Acid)
· **IMDG, IATA**	CORROSIVE LIQUID, N.O.S. (Hydrochloric Acid)
· **Transport hazard class(es)**	
· **DOT**	
· **Class**	8 Corrosive substances
· **Label**	8
· **IMDG, IATA**	
· **Class**	8 Corrosive substances
· **Label**	8
· **Packing group**	
· **DOT, IMDG, IATA**	III
· **Environmental hazards:**	
· **Marine pollutant:**	No
· **Special precautions for user**	Warning: Corrosive substances
· **Hazard identification number (Kemler code):**	80
· **EMS Number:**	F-A,S-B
· **Segregation groups**	(SGG1) Acids
· **Stowage Category**	A
· **Stowage Code**	SW2 Clear of living quarters.
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.

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· **Transport/Additional information:**

· **DOT**
· **Quantity limitations** On passenger aircraft/rail: 5 L
On cargo aircraft only: 60 L

· **IMDG**
· **Limited quantities (LQ)** 5L
· **Excepted quantities (EQ)** Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

· **UN "Model Regulation":** UN 1760 CORROSIVE LIQUID, N.O.S. (HYDROCHLORIC 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
CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution

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

CAS: 7697-37-2	Nitric Acid
CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution
CAS: 7439-92-1	lead powder [particle diameter < 1 mm]
CAS: 7439-96-5	manganese
CAS: 7440-02-0	Nickel Metal
CAS: 7440-28-0	thallium
CAS: 7440-36-0	Antimony Metal
CAS: 7440-38-2	arsenic
CAS: 7440-41-7	beryllium
CAS: 7440-43-9	cadmium Metal
CAS: 7440-47-3	chromium
CAS: 7440-48-4	cobalt
CAS: 7440-50-8	copper
CAS: 7440-62-2	vanadium
CAS: 7440-66-6	Zinc Metal
CAS: 7782-49-2	selenium

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

Water	ACTIVE
Hydrochloric Acid	ACTIVE
Sodium Chloride	ACTIVE
Nitric Acid	ACTIVE

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Sodium Sulfate Anhydrous	ACTIVE
L-Tartaric Acid	ACTIVE
Hydrofluoric Acid 49-51% Aqueous Solution	ACTIVE
Iron Metal	ACTIVE
lead powder [particle diameter < 1 mm]	ACTIVE
lithium	ACTIVE
Magnesium	ACTIVE
manganese	ACTIVE
Molybdenum Metal, 99.8%	ACTIVE
Nickel Metal	ACTIVE
strontium	ACTIVE
thallium	ACTIVE
Titanium Metal	ACTIVE
Antimony Metal	ACTIVE
arsenic	ACTIVE
beryllium	ACTIVE
cadmium Metal	ACTIVE
chromium	ACTIVE
cobalt	ACTIVE
copper	ACTIVE
vanadium	ACTIVE
Zinc Metal	ACTIVE
Calcium Metal	ACTIVE
selenium	ACTIVE

· **Hazardous Air Pollutants**

CAS: 7647-01-0	Hydrochloric Acid
CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution
CAS: 7439-92-1	lead powder [particle diameter < 1 mm]
CAS: 7439-96-5	manganese
CAS: 7440-48-4	cobalt

· **Proposition 65**

· **Chemicals known to cause cancer:**

CAS: 7439-92-1	lead powder [particle diameter < 1 mm]
CAS: 7440-02-0	Nickel Metal
CAS: 7440-38-2	arsenic
CAS: 7440-41-7	beryllium
CAS: 7440-43-9	cadmium Metal
CAS: 7440-48-4	cobalt

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

CAS: 7440-43-9	cadmium Metal

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· **Chemicals known to cause developmental toxicity:**	
CAS: 7440-43-9	cadmium Metal

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**		
CAS: 7439-96-5	manganese	D
CAS: 7440-38-2	arsenic	A
CAS: 7440-41-7	beryllium	B1, K/L(inh), CBD(oral)
CAS: 7440-43-9	cadmium Metal	B1
CAS: 7440-47-3	chromium	D
CAS: 7440-50-8	copper	D
CAS: 7440-66-6	Zinc Metal	D, I, II
CAS: 7782-49-2	selenium	D

· **TLV (Threshold Limit Value)**		
CAS: 7439-98-7	Molybdenum Metal, 99.8%	A3
CAS: 7440-02-0	Nickel Metal	A5
CAS: 7440-38-2	arsenic	A1
CAS: 7440-41-7	beryllium	A1
CAS: 7440-43-9	cadmium Metal	A2
CAS: 7440-47-3	chromium	A4
CAS: 7440-48-4	cobalt	A3

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**	
CAS: 7440-02-0	Nickel Metal
CAS: 7440-38-2	arsenic
CAS: 7440-41-7	beryllium
CAS: 7440-43-9	cadmium Metal

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

GHS05 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**
Hydrochloric Acid
· **Hazard statements**
Causes severe skin burns and eye damage.
May cause damage to organs through prolonged or repeated exposure.
· **Precautionary statements**
Do not breathe dusts or mists.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Rinse mouth. Do NOT induce vomiting.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

(Contd. on page 14)

Safety Data Sheet
acc. to OSHA HCS

Trade name: Brine Method High Std 1ug/ml
Metals 177.1 ug/ml Na_2SO_4 Analytical Reference Std.

(Contd. of page 13)

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).
Get medical advice/attention if you feel unwell.
Wash contaminated clothing before reuse.
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.*

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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 1.2, 05/24/2024: Reviewed SDS for accuracy. MH/STN
Revision 0.0 10-04-2016: Creation date for SDS. STN
05/24/2024
· **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 Corrosion 1A: Skin corrosion/irritation – Category 1A
Eye Damage 1: Serious eye damage/eye irritation – Category 1
Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2
· *** Data compared to the previous version altered.**