

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/15/2018

Reviewed on 03/15/2018

1 Identification

- **Product identifier**
- **Trade name:** 16 Multielement ICP Std 20 ppb ea: As, Ca, Cd
Co, Cr, Cu, Fe, Li, Mg, Mo, Ni, Pb, Sb, Ti, V, Zn in 2% HNO₃
- **Article number:** GIN006
- **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 sherman@aquasolutions.org
- **Emergency telephone number:**
Chemtrec: 800-424-9300
Canutec: 613-996-6666



2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS07

Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 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

- **Signal word** Warning
- **Hazard statements**
Causes skin irritation.
Causes serious eye irritation.
- **Precautionary statements**
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.
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.

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Co, Cr, Cu, Fe, Li, Mg, Mo, Ni, Pb, Sb, Ti, V, Zn in 2% HNO₃**

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- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



- **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: 7697-37-2	Nitric Acid	≤2.05%
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- **Table of Nonhazardous Ingredients**

CAS: 87-69-4	L-Tartaric Acid	≤0.005%
CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution	≤0.005%
CAS: 7439-93-2	lithium	≤0.0001%
CAS: 7440-62-2	vanadium	≤0.0001%
CAS: 7782-49-2	selenium	≤0.0001%
CAS: 7440-43-9	cadmium Metal	≤0.0001%
CAS: 7440-41-7	beryllium	≤0.0001%
CAS: 7440-24-6	strontium	≤0.0001%
CAS: 7440-48-4	cobalt	≤0.0001%
CAS: 7440-47-3	chromium	≤0.0001%
CAS: 7439-89-6	Iron Metal	≤0.0001%
CAS: 7440-38-2	arsenic	≤0.0001%
CAS: 7440-50-8	copper	≤0.0001%
CAS: 7439-92-1	Lead Shot #8	≤0.0001%
CAS: 7440-32-6	Titanium Metal	≤0.0001%
CAS: 7440-02-0	Nickel Metal	≤0.0001%
CAS: 7439-96-5	manganese	≤0.0001%
CAS: 7440-66-6	Zinc Metal	≤0.0001%
CAS: 7440-28-0	thallium	≤0.0001%
CAS: 7439-98-7	Molybdenum Metal, 99.8%	≤0.0001%
CAS: 7439-95-4	Magnesium	≤0.0001%

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CAS: 7440-36-0	Antimony Metal	≤0.0001%
CAS: 7440-70-2	Calcium Metal	≤0.0001%
CAS: 7732-18-5	Water	≤97.938%

4 First-aid measures

- **Description of first aid measures**
- **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** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Dilute with plenty of water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **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: 7697-37-2	Nitric Acid	0.16 ppm
CAS: 87-69-4	L-Tartaric Acid	1.6 mg/m ³
CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution	1.0 ppm
CAS: 7439-93-2	lithium	3.3 mg/m ³
CAS: 7440-62-2	vanadium	3 mg/m ³
CAS: 7782-49-2	selenium	0.6 mg/m ³
CAS: 7440-43-9	cadmium Metal	0.10 mg/m ³
CAS: 7440-41-7	beryllium	0.0023 mg/m ³
CAS: 7440-24-6	strontium	30 mg/m ³

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CAS: 7440-48-4	cobalt	0.18 mg/m ³
CAS: 7440-47-3	chromium	1.5 mg/m ³
CAS: 7439-89-6	Iron Metal	3.2 mg/m ³
CAS: 7440-38-2	arsenic	1.5 mg/m ³
CAS: 7440-50-8	copper	3 mg/m ³
CAS: 7439-92-1	Lead Shot #8	0.15 mg/m ³
CAS: 7440-32-6	Titanium Metal	30 mg/m ³
CAS: 7440-02-0	Nickel Metal	4.5 mg/m ³
CAS: 7439-96-5	manganese	3 mg/m ³
CAS: 7440-66-6	Zinc Metal	6 mg/m ³
CAS: 7440-28-0	thallium	0.06 mg/m ³
CAS: 7439-98-7	Molybdenum Metal, 99.8%	30 mg/m ³
CAS: 7439-95-4	Magnesium	18 mg/m ³
CAS: 7440-36-0	Antimony Metal	1.5 mg/m ³

· PAC-2:

CAS: 7697-37-2	Nitric Acid	24 ppm
CAS: 87-69-4	L-Tartaric Acid	17 mg/m ³
CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution	24 ppm
CAS: 7439-93-2	lithium	36 mg/m ³
CAS: 7440-62-2	vanadium	5.8 mg/m ³
CAS: 7782-49-2	selenium	6.6 mg/m ³
CAS: 7440-43-9	cadmium Metal	0.76 mg/m ³
CAS: 7440-41-7	beryllium	0.025 mg/m ³
CAS: 7440-24-6	strontium	330 mg/m ³
CAS: 7440-48-4	cobalt	2 mg/m ³
CAS: 7440-47-3	chromium	17 mg/m ³
CAS: 7439-89-6	Iron Metal	35 mg/m ³
CAS: 7440-38-2	arsenic	17 mg/m ³
CAS: 7440-50-8	copper	33 mg/m ³
CAS: 7439-92-1	Lead Shot #8	120 mg/m ³
CAS: 7440-32-6	Titanium Metal	330 mg/m ³
CAS: 7440-02-0	Nickel Metal	50 mg/m ³
CAS: 7439-96-5	manganese	5 mg/m ³
CAS: 7440-66-6	Zinc Metal	21 mg/m ³
CAS: 7440-28-0	thallium	3.3 mg/m ³
CAS: 7439-98-7	Molybdenum Metal, 99.8%	330 mg/m ³
CAS: 7439-95-4	Magnesium	200 mg/m ³
CAS: 7440-36-0	Antimony Metal	13 mg/m ³

· PAC-3:

CAS: 7697-37-2	Nitric Acid	92 ppm
CAS: 87-69-4	L-Tartaric Acid	100 mg/m ³
CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution	44 ppm

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		(Contd. of page 4)
CAS: 7439-93-2	<i>lithium</i>	220 mg/m ³
CAS: 7440-62-2	<i>vanadium</i>	35 mg/m ³
CAS: 7782-49-2	<i>selenium</i>	40 mg/m ³
CAS: 7440-43-9	<i>cadmium Metal</i>	4.7 mg/m ³
CAS: 7440-41-7	<i>beryllium</i>	0.1 mg/m ³
CAS: 7440-24-6	<i>strontium</i>	2,000 mg/m ³
CAS: 7440-48-4	<i>cobalt</i>	20 mg/m ³
CAS: 7440-47-3	<i>chromium</i>	99 mg/m ³
CAS: 7439-89-6	<i>Iron Metal</i>	150 mg/m ³
CAS: 7440-38-2	<i>arsenic</i>	100 mg/m ³
CAS: 7440-50-8	<i>copper</i>	200 mg/m ³
CAS: 7439-92-1	<i>Lead Shot #8</i>	700 mg/m ³
CAS: 7440-32-6	<i>Titanium Metal</i>	2,000 mg/m ³
CAS: 7440-02-0	<i>Nickel Metal</i>	99 mg/m ³
CAS: 7439-96-5	<i>manganese</i>	1,800 mg/m ³
CAS: 7440-66-6	<i>Zinc Metal</i>	120 mg/m ³
CAS: 7440-28-0	<i>thallium</i>	20 mg/m ³
CAS: 7439-98-7	<i>Molybdenum Metal, 99.8%</i>	2,000 mg/m ³
CAS: 7439-95-4	<i>Magnesium</i>	1,200 mg/m ³
CAS: 7440-36-0	<i>Antimony Metal</i>	80 mg/m ³

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:** No special measures required.
- **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.
- **Control parameters**

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

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

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TLV	Short-term value: 10 mg/m ³ , 4 ppm Long-term value: 5.2 mg/m ³ , 2 ppm
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· **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.

Avoid contact with the eyes and skin.

· **Breathing equipment:** Not required.

· **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: Colorless

· **Odor:** Odorless

· **Odor threshold:** 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)

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(Contd. of page 6)

· 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:	
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):	1.01034 g/cm ³ (8.43129 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Fully miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Water:	≤97.9 %
VOC content:	0.00 % ≥0.0 g/l / ≥0.00 lb/gl
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:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.

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· **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: 7782-49-2	selenium	3
CAS: 7440-43-9	cadmium Metal	1
CAS: 7440-41-7	beryllium	1
CAS: 7440-48-4	cobalt	2B
CAS: 7440-47-3	chromium	3
CAS: 7440-38-2	arsenic	1
CAS: 7439-92-1	Lead Shot #8	2B
CAS: 7440-02-0	Nickel Metal	2B

· **NTP (National Toxicology Program)**

CAS: 7440-43-9	cadmium Metal	K
CAS: 7440-41-7	beryllium	K
CAS: 7440-48-4	cobalt	R
CAS: 7440-38-2	arsenic	K
CAS: 7439-92-1	Lead Shot #8	R
CAS: 7440-02-0	Nickel Metal	R

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

CAS: 7440-43-9	cadmium Metal
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.
- **Additional ecological information:**
- **General notes:** Generally 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.

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- **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	Not regulated
· DOT, ADN, IMDG, IATA	Not regulated
· UN proper shipping name	Not regulated
· DOT, ADN, IMDG, IATA	Not regulated
· Transport hazard class(es)	Not regulated
· DOT, ADN, IMDG, IATA	Not regulated
· Class	Not regulated
· Packing group	Not regulated
· 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**
- **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: 7440-62-2	vanadium
CAS: 7782-49-2	selenium
CAS: 7440-43-9	cadmium Metal
CAS: 7440-41-7	beryllium
CAS: 7440-48-4	cobalt
CAS: 7440-47-3	chromium
CAS: 7440-38-2	arsenic
CAS: 7440-50-8	copper
CAS: 7439-92-1	Lead Shot #8
CAS: 7440-02-0	Nickel Metal

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CAS: 7439-96-5	manganese
CAS: 7440-66-6	Zinc Metal
CAS: 7440-28-0	thallium
CAS: 7440-36-0	Antimony Metal

· TSCA (Toxic Substances Control Act):

Nitric Acid
L-Tartaric Acid
Hydrofluoric Acid 49-51% Aqueous Solution
lithium
vanadium
selenium
cadmium Metal
beryllium
strontium
cobalt
chromium
Iron Metal
arsenic
copper
Lead Shot #8
Titanium Metal
Nickel Metal
manganese
Zinc Metal
thallium
Molybdenum Metal, 99.8%
Magnesium
Antimony Metal
Calcium Metal
Water

· Proposition 65

· Chemicals known to cause cancer:

CAS: 7440-43-9	cadmium Metal
CAS: 7440-41-7	beryllium
CAS: 7440-48-4	cobalt
CAS: 7440-38-2	arsenic
CAS: 7439-92-1	Lead Shot #8
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:

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

CAS: 7440-43-9	cadmium Metal
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· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

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

· **TLV (Threshold Limit Value established by ACGIH)**

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

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

CAS: 7440-43-9	cadmium Metal
CAS: 7440-41-7	beryllium
CAS: 7440-38-2	arsenic
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

· **Signal word** Warning

· **Hazard statements**

Causes skin irritation.

Causes serious eye irritation.

· **Precautionary statements**

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.

Take off contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

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If eye irritation persists: Get medical advice/attention.

· **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, 03-15-2018: Creation date for SDS. STN

03/15/2018 / -

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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 Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A