

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/23/2023

Reviewed on 10/23/2023

1 Identification

- **Product identifier**
- **Trade name:** 1% Trace Metals Nitric AA Standard
20 ppm K; 200 ppm Na2SO4
- **Article number:** WES032
- **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**



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

- **Signal word** Warning
- **Hazard statements**
Causes skin irritation.
Causes serious eye irritation.
- **Precautionary statements**
Wash thoroughly after handling.
Wear 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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Trade name: 1% Trace Metals Nitric AA Standard
20 ppm K; 200 ppm Na₂SO₄

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· **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: 7697-37-2	Nitric Acid	1.671%
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· **Table of Nonhazardous Ingredients**

CAS: 7732-18-5	Water	98.197%
CAS: 1336-21-6	Ammonium Hydroxide	0.099%
CAS: 7757-82-6	Sodium Sulfate Anhydrous	0.02%
CAS: 7757-79-1	Potassium Nitrate	0.005%
CAS: 7784-27-2	Aluminum Nitrate	0.001%
CAS: 7789-02-8	Chromium Nitrate Nonahydrate	0.001%
CAS: 10043-35-3	boric acid	0.001%
CAS: 16919-19-0	Ammonium hexafluorosilicate	0.001%
CAS: 13477-34-4	Calcium Nitrate Tetrahydrate	0.001%
CAS: 6156-78-1	Manganese Acetate Tetrahydrate	0.0004%
CAS: 10196-18-6	Zinc Nitrate, Reagent Grade	0.0004%
CAS: 19004-19-4	Cupric Nitrate Hydrate	0.0004%
CAS: 10042-76-9	Strontium Nitrate	0.0002%
CAS: 10022-31-8	Barium Nitrate	0.0002%
CAS: 7761-88-8	Silver Nitrate	0.0002%
CAS: 10099-74-8	Lead Nitrate	0.0002%
CAS: 7558-79-4	Sodium Phosphate Dibasic Anhydrous	0.0001%
CAS: 7439-89-6	Iron Metal	0.0001%
CAS: 7440-31-5	Tin Metal	0.0001%
CAS: 7440-36-0	Antimony Metal	0.0001%

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CAS: 12054-85-2 Ammonium Molybdate Tetrahydrate ACS Grade

0.0001%

4 First-aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **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: 1336-21-6	Ammonium Hydroxide	61 ppm
CAS: 7757-82-6	Sodium Sulfate Anhydrous	9.8 mg/m ³
CAS: 7757-79-1	Potassium Nitrate	9 mg/m ³
CAS: 7784-27-2	Aluminum Nitrate	83 mg/m ³
CAS: 10043-35-3	boric acid	6 mg/m ³
CAS: 16919-19-0	Ammonium hexafluorosilicate	12 mg/m ³
CAS: 13477-34-4	Calcium Nitrate Tetrahydrate	12 mg/m ³
CAS: 6156-78-1	Manganese Acetate Tetrahydrate	13 mg/m ³
CAS: 10196-18-6	Zinc Nitrate, Reagent Grade	27 mg/m ³

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Trade name: 1% Trace Metals Nitric AA Standard
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CAS: 19004-19-4	Cupric Nitrate Hydrate	42 mg/m ³
CAS: 10042-76-9	Strontium Nitrate	5.7 mg/m ³
CAS: 10022-31-8	Barium Nitrate	2.9 mg/m ³
CAS: 7761-88-8	Silver Nitrate	0.047 mg/m ³
CAS: 10099-74-8	Lead Nitrate	0.24 mg/m ³
CAS: 7439-89-6	Iron Metal	3.2 mg/m ³
CAS: 7439-95-4	Magnesium	18 mg/m ³
CAS: 7440-02-0	Nickel Metal	4.5 mg/m ³
CAS: 7440-31-5	Tin Metal	6 mg/m ³
CAS: 7440-36-0	Antimony Metal	1.5 mg/m ³
CAS: 7440-38-2	arsenic	1.5 mg/m ³
CAS: 10022-68-1	Cadmium Nitrate	0.27 mg/m ³
CAS: 12054-85-2	Ammonium Molybdate Tetrahydrate ACS Grade	2.8 mg/m ³
CAS: 87-69-4	L-Tartaric Acid	1.6 mg/m ³

· PAC-2:

CAS: 7697-37-2	Nitric Acid	24 ppm
CAS: 1336-21-6	Ammonium Hydroxide	330 ppm
CAS: 7757-82-6	Sodium Sulfate Anhydrous	110 mg/m ³
CAS: 7757-79-1	Potassium Nitrate	100 mg/m ³
CAS: 7784-27-2	Aluminum Nitrate	920 mg/m ³
CAS: 10043-35-3	boric acid	23 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: 6156-78-1	Manganese Acetate Tetrahydrate	22 mg/m ³
CAS: 10196-18-6	Zinc Nitrate, Reagent Grade	300 mg/m ³
CAS: 19004-19-4	Cupric Nitrate Hydrate	150 mg/m ³
CAS: 10042-76-9	Strontium Nitrate	62 mg/m ³
CAS: 10022-31-8	Barium Nitrate	350 mg/m ³
CAS: 7761-88-8	Silver Nitrate	0.9 mg/m ³
CAS: 10099-74-8	Lead Nitrate	180 mg/m ³
CAS: 7439-89-6	Iron Metal	35 mg/m ³
CAS: 7439-95-4	Magnesium	200 mg/m ³
CAS: 7440-02-0	Nickel Metal	50 mg/m ³
CAS: 7440-31-5	Tin Metal	67 mg/m ³
CAS: 7440-36-0	Antimony Metal	13 mg/m ³
CAS: 7440-38-2	arsenic	17 mg/m ³
CAS: 10022-68-1	Cadmium Nitrate	2.1 mg/m ³
CAS: 12054-85-2	Ammonium Molybdate Tetrahydrate ACS Grade	30 mg/m ³
CAS: 87-69-4	L-Tartaric Acid	17 mg/m ³

· PAC-3:

CAS: 7697-37-2	Nitric Acid	92 ppm
CAS: 1336-21-6	Ammonium Hydroxide	2,300 ppm

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CAS: 7757-82-6	Sodium Sulfate Anhydrous	650 mg/m ³
CAS: 7757-79-1	Potassium Nitrate	600 mg/m ³
CAS: 7784-27-2	Aluminum Nitrate	5,500 mg/m ³
CAS: 10043-35-3	boric acid	830 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: 6156-78-1	Manganese Acetate Tetrahydrate	740 mg/m ³
CAS: 10196-18-6	Zinc Nitrate, Reagent Grade	1,800 mg/m ³
CAS: 19004-19-4	Cupric Nitrate Hydrate	240 mg/m ³
CAS: 10042-76-9	Strontium Nitrate	370 mg/m ³
CAS: 10022-31-8	Barium Nitrate	2,100 mg/m ³
CAS: 7761-88-8	Silver Nitrate	5.4 mg/m ³
CAS: 10099-74-8	Lead Nitrate	1,100 mg/m ³
CAS: 7439-89-6	Iron Metal	150 mg/m ³
CAS: 7439-95-4	Magnesium	1,200 mg/m ³
CAS: 7440-02-0	Nickel Metal	99 mg/m ³
CAS: 7440-31-5	Tin Metal	400 mg/m ³
CAS: 7440-36-0	Antimony Metal	80 mg/m ³
CAS: 7440-38-2	arsenic	100 mg/m ³
CAS: 10022-68-1	Cadmium Nitrate	13 mg/m ³
CAS: 12054-85-2	Ammonium Molybdate Tetrahydrate ACS Grade	180 mg/m ³
CAS: 87-69-4	L-Tartaric Acid	100 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 section 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

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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 *inh. fraction + vapor, 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.

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.

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Trade name: 1% Trace Metals Nitric AA Standard
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· Change in condition	
Melting point/Melting range:	0 °C (32 °F)
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)
· Density at 20 °C (68 °F):	1.00672 g/cm ³ (8.40108 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:	98.2 %
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.

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11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

ATE (Acute Toxicity Estimate)

Inhalative	LC50/4h	179 mg/l
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· **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: 10099-74-8	Lead Nitrate	2A
CAS: 7440-02-0	Nickel Metal	2B
CAS: 7440-38-2	arsenic	I
CAS: 10022-68-1	Cadmium Nitrate	I

· **NTP (National Toxicology Program)**

CAS: 10099-74-8	Lead Nitrate	R
CAS: 7440-02-0	Nickel Metal	R
CAS: 7440-38-2	arsenic	K
CAS: 10022-68-1	Cadmium Nitrate	K

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

CAS: 7440-38-2	arsenic
CAS: 10022-68-1	Cadmium Nitrate

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.

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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.
- **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.
· 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
· Section 313 (Specific toxic chemical listings):	
CAS: 7697-37-2	Nitric Acid
CAS: 1336-21-6	Ammonium Hydroxide
CAS: 7757-79-1	Potassium Nitrate
CAS: 7784-27-2	Aluminum Nitrate
CAS: 7789-02-8	Chromium Nitrate Nonahydrate
CAS: 13477-34-4	Calcium Nitrate Tetrahydrate
CAS: 10196-18-6	Zinc Nitrate, Reagent Grade
CAS: 10042-76-9	Strontium Nitrate

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CAS: 10022-31-8	Barium Nitrate
CAS: 7761-88-8	Silver Nitrate
CAS: 10099-74-8	Lead Nitrate
CAS: 7440-02-0	Nickel Metal
CAS: 7440-36-0	Antimony Metal
CAS: 7440-38-2	arsenic
CAS: 10022-68-1	Cadmium Nitrate

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

Water	ACTIVE
Nitric Acid	ACTIVE
Ammonium Hydroxide	ACTIVE
Sodium Sulfate Anhydrous	ACTIVE
Potassium Nitrate	ACTIVE
boric acid	ACTIVE
Ammonium hexafluorosilicate	ACTIVE
Strontium Nitrate	ACTIVE
Barium Nitrate	ACTIVE
Silver Nitrate	ACTIVE
Lead Nitrate	ACTIVE
Sodium Phosphate Dibasic Anhydrous	ACTIVE
Iron Metal	ACTIVE
Magnesium	ACTIVE
Nickel Metal	ACTIVE
Tin Metal	ACTIVE
Antimony Metal	ACTIVE
arsenic	ACTIVE
L-Tartaric Acid	ACTIVE

· **Hazardous Air Pollutants**

CAS: 10099-74-8	Lead Nitrate
CAS: 10022-68-1	Cadmium Nitrate

· **Proposition 65**

· **Chemicals known to cause cancer:**

CAS: 10099-74-8	Lead Nitrate
CAS: 7440-02-0	Nickel Metal
CAS: 7440-38-2	arsenic
CAS: 10022-68-1	Cadmium Nitrate

· **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.

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· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

CAS: 10043-35-3	boric acid	I (oral)
CAS: 10022-31-8	Barium Nitrate	D, CBD(inh), NL(oral)
CAS: 10099-74-8	Lead Nitrate	B2
CAS: 7440-38-2	arsenic	A

· **TLV (Threshold Limit Value)**

CAS: 10043-35-3	boric acid	A4
CAS: 10022-31-8	Barium Nitrate	A4
CAS: 10099-74-8	Lead Nitrate	A3
CAS: 7440-02-0	Nickel Metal	A5
CAS: 7440-38-2	arsenic	A1

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

CAS: 7440-02-0	Nickel Metal
CAS: 7440-38-2	arsenic
CAS: 10022-68-1	Cadmium Nitrate

· **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 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.

· **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, 10-23-2023: creation date for SDS STN/CMC
10/23/2023

· **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

US