Printing date 08/12/2024

Reviewed on 08/12/2024

1 Identification

- · Product identifier
- Trade name: <u>Multi-Component AA Standard in 5% Nitric Acid 8.0 ppm ea of:</u> <u>Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Se, Si,</u> Sn, Sr, Ti, Tl, V, Zn
- Article number: COR013
- · 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

GHS05 Corrosion

Skin Corrosion 1AH314 Causes severe skin burns and eye damage.Eye Damage 1H318 Causes serious eye damage.

· Label elements

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



- · Signal word Danger
- Hazard-determining components of labeling: Nitric Acid
 Hazard statements Causes severe skin burns and eye damage.
 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.

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(Contd. of page 1)

Specific treatment (see on this label). 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)

 $\begin{array}{c} 0 \\ 3 \\ 0 \\ \end{array} \begin{array}{c} Health = 3 \\ Fire = 0 \\ Reactivity = 0 \end{array}$

· HMIS-ratings (scale 0 - 4)

HEALTH3Health = 3FIRE0Fire = 0REACTIVITY0

· 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.

CAS: 7697-37-2 Nitric Acid	5.933%
Table of Nonhazardous Ingredients	· · · ·
CAS: 7732-18-5 Water	93.196%
CAS: 1336-21-6 Ammonium Hydroxide	0.793%
CAS: 7784-27-2 Aluminum Nitrate	0.011%
CAS: 7789-02-8 Chromium Nitrate Nonahydrate	0.006%
CAS: 10043-35-3 boric acid	0.005%
CAS: 16919-19-0 Ammonium hexafluorosilicate	0.005%
CAS: 13477-34-4 Calcium Nitrate Tetrahydrate	0.005%
CAS: 554-13-2 Lithium Carbonate	0.004%
CAS: 10026-22-9 Cobalt Nitrate Hexahydrate	0.004%
CAS: 10196-18-6 Zinc Nitrate, Reagent Grade	0.004%
CAS: 6156-78-1 Manganese Acetate Tetrahydrate	0.004%
CAS: 7783-28-0 Ammonium Phosphate Dibasic	0.003%
CAS: 19004-19-4 Cupric Nitrate Hydrate	0.003%
CAS: 7631-99-4 Sodium Nitrate	0.003%
CAS: 7757-79-1 Potassium Nitrate	0.002%
CAS: 10042-76-9 Strontium Nitrate	0.002%
CAS: 10102-45-1 Thallium Nitrate	0.002%

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	(Contd. of pa
CAS: 10022-31-8 Barium Nitrate	0.002
CAS: 1314-62-1 Vanadium Pentoxide Reagent	0.001
CAS: 10099-74-8 Lead Nitrate	0.001
CAS: 7761-88-8 Silver Nitrate	0.001
CAS: 7446-08-4 selenium dioxide	0.001
CAS: 7439-89-6 Iron Metal	0.001
CAS: 7440-31-5 Tin Metal	0.001
CAS: 7440-36-0 Antimony Metal	0.001
CAS: 7440-38-2 arsenic	0.001
CAS: 7440-41-7 beryllium	0.001
CAS: 10022-68-1 Cadmium Nitrate	0.001
CAS: 12054-85-2 Ammonium Molybdate Tetrahya	drate ACS Grade 0.001
Ammonium Hexafluorotitanate	0.001
CAS: 7439-95-4 Magnesium	0.001
CAS: 7439-97-6 Mercury	0.001
CAS: 7440-02-0 Nickel Metal	0.001

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. 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.

6 Accidental release measures

• *Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.*

Wear protective equipment. Keep unprotected persons away.

(Contd. on page 4)

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Safety Data Sheet acc. to OSHA HCS

Printing date 08/12/2024 Reviewed on 08/12/2024 Trade name: Multi-Component AA Standard in 5% Nitric Acid 8.0 ppm ea of: Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Se, Si, Sn, Sr. Ti, Tl, V, Zn (Contd. of page 3) • Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. 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 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: 7697-37-2 Nitric Acid 0.16 ppm CAS: 1336-21-6 Ammonium Hydroxide 61 ppm 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: 554-13-2 Lithium Carbonate $3.1 \, mg/m^3$ CAS: 10026-22-9 Cobalt Nitrate Hexahydrate 0.3 mg/m^3 CAS: 10196-18-6 Zinc Nitrate, Reagent Grade 27 mg/m^3 CAS: 6156-78-1 Manganese Acetate Tetrahydrate 13 mg/m³ CAS: 7783-28-0 Ammonium Phosphate Dibasic 20 mg/m^3 CAS: 19004-19-4 Cupric Nitrate Hydrate 42 mg/m^3 Sodium Nitrate CAS: 7631-99-4 4.1 mg/m^3 CAS: 7757-79-1 Potassium Nitrate 9 mg/m^3 CAS: 10042-76-9 Strontium Nitrate $5.7 \, mg/m^3$ CAS: 10102-45-1 Thallium Nitrate $0.078 \ mg/m^3$ CAS: 10022-31-8 Barium Nitrate 2.9 mg/m^3 CAS: 1314-62-1 Vanadium Pentoxide Reagent 0.64 mg/m^3 CAS: 10099-74-8 Lead Nitrate 0.24 mg/m^3 CAS: 7761-88-8 Silver Nitrate $0.047 \, mg/m^3$ CAS: 7446-08-4 selenium dioxide 0.84 mg/m^3 CAS: 7439-89-6 Iron Metal 3.2 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: 7440-41-7 beryllium 0.0023 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 (Contd. on page 5)

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		(Contd. of page
CAS: 7439-95-4	Magnesium	18 mg/m ³
CAS: 7439-97-6	Mercury	0.15 mg/m ³
· PAC-2:		
CAS: 7697-37-2	Nitric Acid	24 ppm
CAS: 1336-21-6	Ammonium Hydroxide	160 ppm
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: 554-13-2	Lithium Carbonate	11 ppm
CAS: 10026-22-9	Cobalt Nitrate Hexahydrate	23 mg/m ³
CAS: 10196-18-6	Zinc Nitrate, Reagent Grade	300 mg/m ³
CAS: 6156-78-1	Manganese Acetate Tetrahydrate	22 mg/m ³
CAS: 7783-28-0	Ammonium Phosphate Dibasic	39 ppm
CAS: 19004-19-4	Cupric Nitrate Hydrate	150 mg/m ³
CAS: 7631-99-4	Sodium Nitrate	45 mg/m ³
CAS: 7757-79-1	Potassium Nitrate	100 mg/m ³
CAS: 10042-76-9	Strontium Nitrate	62 mg/m ³
CAS: 10102-45-1	Thallium Nitrate	4.3 mg/m ³
CAS: 10022-31-8	Barium Nitrate	350 mg/m ³
CAS: 1314-62-1	Vanadium Pentoxide Reagent	7 mg/m ³
CAS: 10099-74-8	Lead Nitrate	180 mg/m ³
CAS: 7761-88-8	Silver Nitrate	0.9 mg/m ³
CAS: 7446-08-4	selenium dioxide	1.6 mg/m ³
CAS: 7439-89-6	Iron Metal	35 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: 7440-41-7	beryllium	0.025 mg/m
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: 7439-95-4	Magnesium	200 mg/m ³
CAS: 7439-97-6	Mercury	1.7 mg/m³
· PAC-3:	•	
CAS: 7697-37-2	Nitric Acid	92 ppm
CAS: 1336-21-6	Ammonium Hydroxide	1100 ppm
CAS: 7784-27-2	Aluminum Nitrate	5,500 mg/m
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: 554-13-2	Lithium Carbonate	68 ppm
	1	(Contd. on page

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CAS: 10026-22-9 Cobalt Nitrate Hexahydrate	(Contd. of page 140 mg/m ³
	°
CAS: 10196-18-6 Zinc Nitrate, Reagent Grade	1,800 mg/m ²
CAS: 6156-78-1 Manganese Acetate Tetrahydrate	740 mg/m ³
CAS: 7783-28-0 Ammonium Phosphate Dibasic	240 ppm
CAS: 19004-19-4 Cupric Nitrate Hydrate	240 mg/m ³
CAS: 7631-99-4 Sodium Nitrate	270 mg/m ³
CAS: 7757-79-1 Potassium Nitrate	600 mg/m ³
CAS: 10042-76-9 Strontium Nitrate	370 mg/m ³
CAS: 10102-45-1 Thallium Nitrate	26 mg/m ³
CAS: 10022-31-8 Barium Nitrate	2,100 mg/m ²
CAS: 1314-62-1 Vanadium Pentoxide Reagent	70 mg/m ³
CAS: 10099-74-8 Lead Nitrate	1,100 mg/m ²
CAS: 7761-88-8 Silver Nitrate	5.4 mg/m ³
CAS: 7446-08-4 selenium dioxide	9.5 mg/m ³
CAS: 7439-89-6 Iron Metal	150 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: 7440-41-7 beryllium	0.1 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: 7439-95-4 Magnesium	1,200 mg/m
CAS: 7439-97-6 Mercury	8.9 mg/m ³

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.

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(Contd. of page 6)

Comp	ponents with limit values that require monitoring at the workplace:
CAS:	7697-37-2 Nitric Acid
PEL	Long-term value: 5 mg/m³, 2 ppm
REL	Short-term value: 10 mg/m³, 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
	NIC-A4
Addit	ional information: The lists that were valid during the creation were used as basis.
Expo	sure controls
	onal protective equipment:
	ral protective and hygienic measures:
Кеер	away from foodstuffs, beverages and feed.
	diately remove all soiled and contaminated clothing.
	hands before breaks and at the end of work.
	contact with the eyes.
	l contact with the eyes and skin.
	thing equipment:
	se of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure us
	ratory protective device that is independent of circulating air. ction of hands:
	Dusta stine stand
	Protective gloves
The g	love material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due t	to missing tests no recommendation to the glove material can be given for the product/ the preparation/ th
	ical mixture.
	tion of the glove material on consideration of the penetration times, rates of diffusion and the degradation
	rial of gloves
	election of the suitable gloves does not only depend on the material, but also on further marks of quality an
	s from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of
	love material can not be calculated in advance and has therefore to be checked prior to the application.
	tration time of glove material
obser	exact break through time has to be found out by the manufacturer of the protective gloves and has to b
	vea. protection:
Lyep	nonection.
(T	Tightly sealed goggles
Rody	protection: Protective work clothing
Бойу	processon. 1 receive work comming

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(Contd. of page 7)

emical properties Liquid Clear Odorless
Clear
Clear
()dorlars
Not determined.
Not determined.
Undetermined.
83 °C (181.4 °F)
Not applicable.
Not applicable.
Not determined.
Product is not selfigniting.
Product does not present an explosion hazard.
Not determined.
Not determined.
23 hPa (17.3 mm Hg)
1.02041 g/cm ³ (8.51532 lbs/gal)
Not determined.
Not determined.
Not determined.
Fully miscible.
: Not determined.
Not determined.
Not determined.
93.2%
0.0 g/l / 0.00 lb/gal
0.0 %

10 Stability and reactivity

· *Reactivity* No further relevant information available.

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Sr. Ti, Tl, V, Zn

(Contd. of page 8)

· 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 50.6 mg/l

· 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.

· Carcinogenic categories

2B 2B 2A 3 1 1 1 1
3 1 1 1
1 1 1
1 1
1
1
3
2B
· · · · ·
R
K
K
K
R

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(Contd. of page 9)

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:

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.

· UN-Number	
· DOT, IMDG, IATA	UN3264
· UN proper shipping name	
· DOT	Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid)
· IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitri
	Acid)
· Transport hazard class(es)	
DOT	
CORROSIVE 8	
· Class	8 Corrosive substances

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	(Contd. of page 1
Label	8
IMDG, IATA	
Class	8 Corrosive substances
Label	8
Packing group DOT, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user Hazard identification number (Kemler code).	<i>Warning: Corrosive substances</i> : 86
EMS Number:	F- A , S - B
Segregation groups	(SGG1a) Strong acids
Stowage Category Stowage Code	B SW2 Clear of living quarters.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 1 L
	On cargo aircraft only: 30 L
IMDG	
Limited quantities (LQ)	
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O. (NITRIC ACID), 8, II

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara	
```	tremely hazardous substances):
CAS: 7697-37-2	Nitric Acid
CAS: 1314-62-1	Vanadium Pentoxide Reagent
· Section 313 (Spe	ecific toxic chemical listings):
CAS: 7697-37-2	Nitric Acid
CAS: 1336-21-6	Ammonium Hydroxide
CAS: 7784-27-2	Aluminum Nitrate
	(Contd. on page 12)

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CAS: 7789-02-8	Chromium Nitrate Nonahydrate	(Contd. of page
	Calcium Nitrate Tetrahydrate	
	Lithium Carbonate	
	Cobalt Nitrate Hexahydrate	
	Zinc Nitrate, Reagent Grade	
	Potassium Nitrate	
CAS: 10042-76-9		
CAS: 10102-45-1		
CAS: 10022-31-8		
	Vanadium Pentoxide Reagent	
CAS: 10099-74-8	C	
	Silver Nitrate	
	selenium dioxide	
	Antimony Metal	
	arsenic	
	beryllium	
CAS: 10022-68-1	•	
	Mercury	
	Nickel Metal	
	stances Control Act):	
Water	unces connor Acy.	ACTI
Nitric Acid		ACTIV
Ammonium Hydro	ride	ACTIV
boric acid		ACTIV
Ammonium hexafl	uorosilicate	ACTIV
Lithium Carbonate		ACTIV
		ACTIV
Ammonium Phosphate Dibasic Sodium Nitrate		ACTIV
Potassium Nitrate		ACTIV
Strontium Nitrate		ACTIV
Thallium Nitrate		ACTIV
Barium Nitrate		ACTIV
Vanadium Pentoxi	de Reagent	ACTIV
Lead Nitrate		ACTIV
Silver Nitrate		ACTIV
selenium dioxide		ACTIV
Iron Metal		ACTIV
Tin Metal		ACTIV
Antimony Metal		ACTIV
arsenic		ACTIV
beryllium		ACTIV
·····		(Contd. on page

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Magnesium		(Contd. of pag ACTI
Mercury		ACTI
Nickel Metal		ACTI
L-Tartaric Acid		ACTI
	II. to set	АСП
Hazardous Air Po		
	Cobalt Nitrate Hexahydrate	
CAS: 10099-74-8 CAS: 7446-08-4	selenium dioxide	
CAS: 7440-08-4 CAS: 10022-68-1		
	Caamium Nitrate	
Proposition 65 Chemicals known	40 00000 0000	
	Vanadium Pentoxide Reagent	
CAS: 10099-74-8	C C	
	arsenic	
	beryllium	
CAS: 10022-68-1	-	
	Nickel Metal	
	to cause reproductive toxicity for females:	
None of the ingrea		
	to cause reproductive toxicity for males:	
None of the ingrea	lients is listed.	
	to cause developmental toxicity:	
CAS: 554-13-2 1	Jithium Carbonate	
CAS: 7439-97-6 I	Mercury	
Carcinogenic cate	gories	
-	ntal Protection Agency)	
CAS: 10043-35-3	boric acid	I (oral)
CAS: 10102-45-1	Thallium Nitrate	II
CAS: 10022-31-8	Barium Nitrate	D, CBD(inh), NL(oral
CAS: 10099-74-8	Lead Nitrate	<i>B2</i>
CAS: 7446-08-4	selenium dioxide	D
CAS: 7440-38-2	arsenic	A
CAS: 7440-41-7	beryllium	B1, K/L(inh), CBD(or
CAS: 7439-97-6	Mercury	D
TLV (Threshold L	imit Value)	1
CAS: 10043-35-3	boric acid	-
CAS: 10022-31-8	Barium Nitrate	
CAS: 1314-62-1	Vanadium Pentoxide Reagent	
CAS: 10099-74-8	Lead Nitrate	
CAS: 7440-38-2	arsenic	

Printing date 08/12/2024

Reviewed on 08/12/2024

Trade name: Multi-Component AA Standard in 5% Nitric Acid 8.0 ppm ea of: Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Se, Si, Sn, Sr, Ti, Tl, V, Zn

		(Contd. of page 1
CAS: 7439-97-6	Mercury	A
CAS: 7440-02-0	Nickel Metal	A
NIOSH-Ca (Natio	nal Institute for Occupational Safety and Health)	
CAS: 7440-38-2	arsenic	
CAS: 7440-41-7	beryllium	
CAS: 10022-68-1	Cadmium Nitrate	
CAS: 7440-02-0	Nickel Metal	
• Hazard pictogram GHS05 • Signal word Dang		
• Signai wora Dang	er	
• Hazard-determini Nitric Acid	ng components of labeling:	

• Hazard statements Causes severe skin hurns and eve damage

Causes severe skin burns and eye damage. · Precautionary statements Do not breathe dusts or mists. Wash thoroughly after handling. *Wear protective gloves/protective clothing/eve 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). 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.

# **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, 08-12-2024: Reviewed SDS for accuracy. STN/GW 08/12/2024 / 1.1

• Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association

(Contd. on page 15)

US

# Safety Data Sheet acc. to OSHA HCS

Printing date 08/12/2024

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#### Trade name: Multi-Component AA Standard in 5% Nitric Acid 8.0 ppm ea of: Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Se, Si, Sn, Sr, Ti, Tl, V, Zn

(Contd. of page 14) 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 Corrosion 1A: Skin corrosion/irritation - Category 1A Eye Damage 1: Serious eye damage/eye irritation - Category 1 • * Data compared to the previous version altered.