Reviewed on 08/12/2024 Printing date 08/12/2024

1 Identification

· Product identifier

· Trade name: Multi-Component AA Standard in 5% Nitric Acid 1.0 ppm ea of:

Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Hg, K, Li, Mg, Mn, Mo, Na

Sn, Sr, Ti, Tl, V, Zn

· Article number: COR012

· 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

Canutec: 613-996-6666

Sherman Nelson shermann@aquasolutions.org

· Emergency telephone number: Chemtrec: 800-424-9300



2 Hazard(s) identification

Classification of the substance or mixture



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

- · 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.

(Contd. on page 2)

Printing date 08/12/2024 Reviewed on 08/12/2024

Trade name: Multi-Component AA Standard in 5% Nitric Acid 1.0 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)

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)



Health = 3Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



3 Health = 3Fire = 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	5.117%
· Table of Nonhazardous Ingredients	
CAS: 7732-18-5 Water	94.775%
CAS: 1336-21-6 Ammonium Hydroxide	0.099%
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: 554-13-2 Lithium Carbonate	0.001%
CAS: 10026-22-9 Cobalt Nitrate Hexahydrate	0.0005%
CAS: 6156-78-1 Manganese Acetate Tetrahydrate	0.0004%
CAS: 10196-18-6 Zinc Nitrate, Reagent Grade	0.0004%
CAS: 7783-28-0 Ammonium Phosphate Dibasic	0.0004%
CAS: 7631-99-4 Sodium Nitrate	0.0004%
CAS: 19004-19-4 Cupric Nitrate Hydrate	0.0004%
CAS: 7757-79-1 Potassium Nitrate	0.0003%
CAS: 10042-76-9 Strontium Nitrate	0.0002%
CAS: 10102-45-1 Thallium Nitrate	0.00029

Printing date 08/12/2024 Reviewed on 08/12/2024

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		(Contd. of page 2)
CAS: 10022-31-8	Barium Nitrate	0.0002%
CAS: 1314-62-1	Vanadium Pentoxide Reagent	0.0002%
CAS: 7761-88-8	Silver Nitrate	0.0002%
CAS: 10099-74-8	Lead Nitrate	0.0002%
CAS: 7446-08-4	selenium dioxide	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%
CAS: 7440-41-7	beryllium	0.0001%
CAS: 12054-85-2	Ammonium Molybdate Tetrahydrate ACS Grade	0.0001%
	Ammonium Hexafluorotitanate	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. 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.

· Environmental precautions:

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.

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(Contd. of page 3)

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

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		6 mg/m^3
	Ammonium hexafluorosilicate	12 mg/m^3
	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: 6156-78-1	Manganese Acetate Tetrahydrate	13 mg/m³
CAS: 10196-18-6	Zinc Nitrate, Reagent Grade	27 mg/m³
CAS: 7783-28-0	Ammonium Phosphate Dibasic	20 mg/m³
CAS: 7631-99-4	Sodium Nitrate	4.1 mg/m ³
CAS: 19004-19-4	Cupric Nitrate Hydrate	42 mg/m^3
CAS: 7757-79-1	Potassium Nitrate	9 mg/m³
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/m³
CAS: 1314-62-1	Vanadium Pentoxide Reagent	0.64 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: 7446-08-4	selenium dioxide	0.84 mg/m^3
CAS: 7439-89-6	Iron Metal	3.2 mg/m^3
CAS: 7439-95-4	Magnesium	18 mg/m³
CAS: 7439-97-6	Mercury	0.15 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: 7440-41-7	beryllium	0.0023 mg/m
CAS: 10022-68-1	Cadmium Nitrate	0.27 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/m³
CAS: 10043-35-3	boric acid	23 mg/m³

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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

CAS: 16010 10 0 An	monium hexafluorosilicate	(Contd. of page 130 mg/m³
	lcium Nitrate Tetrahydrate	$\frac{130 \text{ mg/m}^3}{130 \text{ mg/m}^3}$
· · · · · · · · · · · · · · · · · · ·	hium Carbonate	11 ppm
		* *
	balt Nitrate Hexahydrate	23 mg/m³
	inganese Acetate Tetrahydrate	22 mg/m^3
	nc Nitrate, Reagent Grade	300 mg/m^3
	amonium Phosphate Dibasic	39 ppm
	dium Nitrate	45 mg/m^3
	pric Nitrate Hydrate	150 mg/m^3
	tassium Nitrate	100 mg/m^3
CAS: 10042-76-9 Str		62 mg/m^3
CAS: 10102-45-1 Th		4.3 mg/m^3
CAS: 10022-31-8 Ba		350 mg/m ³
	nadium Pentoxide Reagent	7 mg/m^3
CAS: 7761-88-8 Sil	ver Nitrate	0.9 mg/m^3
CAS: 10099-74-8 Lea	ad Nitrate	180 mg/m³
CAS: 7446-08-4 sel	enium dioxide	1.6 mg/m^3
CAS: 7439-89-6 Iro	n Metal	35 mg/m^3
CAS: 7439-95-4 Ma	gnesium	200 mg/m³
CAS: 7439-97-6 Me	ercury	1.7 mg/m^3
CAS: 7440-02-0 Nic	ckel Metal	50 mg/m³
CAS: 7440-31-5 Tir	n Metal	67 mg/m³
CAS: 7440-36-0 An	timony Metal	13 mg/m³
CAS: 7440-38-2 ars	renic	17 mg/m³
CAS: 7440-41-7 ber	yllium	0.025 mg/m
CAS: 10022-68-1 Ca	dmium Nitrate	$2.1 mg/m^3$
<i>PAC-3</i> :		1
CAS: 7697-37-2 Nit	ric Acid	92 ppm
CAS: 1336-21-6 Am	monium Hydroxide	1100 ppm
CAS: 7784-27-2 Alı	ıminum Nitrate	5,500 mg/m
CAS: 10043-35-3 box	ric acid	830 mg/m³
	monium hexafluorosilicate	780 mg/m^3
	lcium Nitrate Tetrahydrate	770 mg/m^3
	hium Carbonate	68 ppm
	balt Nitrate Hexahydrate	$\frac{11}{140 \text{ mg/m}^3}$
	inganese Acetate Tetrahydrate	740 mg/m^3
	nc Nitrate, Reagent Grade	1,800 mg/m
	amonium Phosphate Dibasic	240 ppm
	dium Nitrate	$\frac{270 \text{ mg/m}^3}{270 \text{ mg/m}^3}$
	pric Nitrate Hydrate	240 mg/m^3
	tassium Nitrate	600 mg/m^3

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		(Contd. of page 5
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	$2,100 \text{ mg/m}^3$
CAS: 1314-62-1	Vanadium Pentoxide Reagent	70 mg/m³
CAS: 7761-88-8	Silver Nitrate	5.4 mg/m ³
CAS: 10099-74-8	Lead Nitrate	$1,100 \text{ mg/m}^3$
CAS: 7446-08-4	selenium dioxide	9.5 mg/m ³
CAS: 7439-89-6	Iron Metal	150 mg/m^3
CAS: 7439-95-4	Magnesium	$1,200 \text{ mg/m}^3$
CAS: 7439-97-6	Mercury	8.9 mg/m^3
CAS: 7440-02-0	Nickel Metal	99 mg/m³
CAS: 7440-31-5	Tin Metal	400 mg/m^3
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/m^3
CAS: 10022-68-1	Cadmium Nitrate	13 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

CAS: 7697-37-2 Nitric Acid

· Components with	limit values tha	t require m	nonitoring at	the workplace:
1		1		

PEL Long-term value: 5 mg/m³, 2 ppm REL Short-term value: 10 mg/m³, 4 ppm Long-term value: 5 mg/m³, 2 ppm

TLV Short-term value: (4) NIC-0.025 ppm

Long-term value: (2) ppm

NIC-A4

(Contd. on page 7)

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(Contd. of page 6)

- · 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.

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

· 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: Not determined.

· Change in condition

Melting point/Melting range: Undetermined.

(Contd. on page 8)

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	(Contd. of pa
Boiling point/Boiling range:	83 °C (181.4 °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):	1.02041 g/cm³ (8.51532 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	er): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Water:	94.8 %
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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(Contd. of page 8)

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Inhalative LC50/4h 58.6 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

· IARC (Internation	nal Agency for Research on Cancer)	
CAS: 10026-22-9	Cobalt Nitrate Hexahydrate	2B
CAS: 1314-62-1	Vanadium Pentoxide Reagent	2B
CAS: 10099-74-8	Lead Nitrate	2A
CAS: 7446-08-4	selenium dioxide	3
CAS: 7439-97-6	Mercury	3
CAS: 7440-02-0	Nickel Metal	2B
CAS: 7440-38-2	arsenic	1
CAS: 7440-41-7	beryllium	1
CAS: 10022-68-1	Cadmium Nitrate	1
· NTP (National To	oxicology Program)	•
CAS: 10099-74-8	Lead Nitrate	R
CAS: 7440-02-0	Nickel Metal	R
CAS: 7440-38-2	arsenic	K
CAS: 7440-41-7	beryllium	K
CAS: 10022-68-1	Cadmium Nitrate	K
· OSHA-Ca (Occup	pational 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.

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(Contd. of page 9)

- · 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.

14	Trans	port ii	nforme	ution
	I I WILL		UJUITION	

· UN-Number · DOT, IMDG, IATA	UN3264
· UN proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid)
· DOT	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Nitric
· IMDG, IATA	Acid)

- · Transport hazard class(es)
- $\cdot DOT$



· Class 8 Corrosive substances · Label 8

· IMDG, IATA



Class 8 Corrosive substances

(Contd. on page 11)

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	(Contd. of page
Label	8
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code):	86
EMS Number:	F- A , S - B
Segregation groups	(SGG1a) Strong acids
Stowage Category	B
Stowage Code	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)	IL
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

2	
· Section 355 (extra	emely hazardous substances):
CAS: 7697-37-2	Nitric Acid
CAS: 1314-62-1	Vanadium Pentoxide Reagent
· Section 313 (Spec	cific toxic chemical listings):
CAS: 7697-37-2	Nitric Acid
CAS: 1336-21-6	Ammonium Hydroxide
CAS: 7784-27-2	Aluminum Nitrate
CAS: 7789-02-8	Chromium Nitrate Nonahydrate
CAS: 13477-34-4	Calcium Nitrate Tetrahydrate
CAS: 554-13-2	Lithium Carbonate
CAS: 10026-22-9	Cobalt Nitrate Hexahydrate
CAS: 10196-18-6	Zinc Nitrate, Reagent Grade
CAS: 7757-79-1	Potassium Nitrate
	(Contd. on page 12)

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		(Contd. of pag
CAS: 10042-76-9		
CAS: 10102-45-1		
CAS: 10022-31-8	Barium Nitrate	
CAS: 1314-62-1	Vanadium Pentoxide Reagent	
CAS: 7761-88-8	Silver Nitrate	
CAS: 10099-74-8	Lead Nitrate	
CAS: 7446-08-4	selenium dioxide	
CAS: 7439-97-6	Mercury	
CAS: 7440-02-0	Nickel Metal	
CAS: 7440-36-0	Antimony Metal	
CAS: 7440-38-2	arsenic	
CAS: 7440-41-7	beryllium	
CAS: 10022-68-1	Cadmium Nitrate	
· TSCA (Toxic Sub	stances Control Act):	
Water	·	ACTI
Nitric Acid		ACTI
Ammonium Hydroxide		ACTI
boric acid		ACTI
Ammonium hexafluorosilicate		ACTI
Lithium Carbonate		ACTI
Ammonium Phosp	hate Dibasic	ACTI
Sodium Nitrate		ACTI
Potassium Nitrate		ACTI
Strontium Nitrate		ACTI
Thallium Nitrate		ACTI
Barium Nitrate		ACTI
Vanadium Pentoxide Reagent		ACTI
Silver Nitrate		ACTI
Lead Nitrate		ACTI
selenium dioxide		ACTI
Iron Metal		ACTI
Magnesium		ACTI
Mercury		ACTI
Nickel Metal		ACTI
Tin Metal		ACTI
Antimony Metal		ACTI
arsenic		ACTI
beryllium		ACTI
L-Tartaric Acid		ACTI
· Hazardous Air Po	llutants	
CAS: 10026-22-9	Cobalt Nitrate Hexahydrate	
		(Contd. on pag

Printing date 08/12/2024 Reviewed on 08/12/2024

Trade name: Multi-Component AA Standard in 5% Nitric Acid 1.0 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

CAS: 10099-74-8	Lead Nitrate	(Contd. of page
	selenium dioxide	
CAS: 10022-68-1		
Proposition 65	Caamtum ivitrate	
Chemicals known	to causa cancar	
	Vanadium Pentoxide Reagent	
CAS: 10099-74-8	<u> </u>	
	Nickel Metal	
CAS: 7440-38-2	arsenic	
	beryllium	
CAS: 10022-68-1	•	
	to cause reproductive toxicity for females:	
None of the ingrea		
Chemicals known	to cause reproductive toxicity for males:	
None of the ingrea		
Chemicals known	to cause developmental toxicity:	
CAS: 554-13-2	Lithium Carbonate	
CAS: 7439-97-6	Mercury	
Carcinogenic cate	gories	
EPA (Environme	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	B2
CAS: 7446-08-4	selenium dioxide	D
CAS: 7439-97-6	Mercury	D
CAS: 7440-38-2	arsenic	A
CAS: 7440-41-7	beryllium	B1, K/L(inh), CBD(ord
TLV (Threshold 1	imit Value)	
CAS: 10043-35-3	boric acid	A
CAS: 10022-31-8	Barium Nitrate	A
CAS: 1314-62-1	Vanadium Pentoxide Reagent	A
CAS: 10099-74-8	Lead Nitrate	A
CAS: 7439-97-6	Mercury	A
CAS: 7440-02-0	Nickel Metal	A
C 1 C 7 1 1 O 2 O 2	arsenic	A
CAS: 7440-38-2	arsenic	I .
CAS: 7440-38-2 CAS: 7440-41-7	beryllium	
CAS: 7440-41-7		
CAS: 7440-41-7 NIOSH-Ca (Natio CAS: 7440-02-0	beryllium	
CAS: 7440-41-7 NIOSH-Ca (Natio	beryllium onal Institute for Occupational Safety and Health)	A

Printing date 08/12/2024 Reviewed on 08/12/2024

Trade name: Multi-Component AA Standard in 5% Nitric Acid 1.0 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 13)

CAS: 10022-68-1 Cadmium Nitrate

- 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.

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

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

(Contd. on page 15)

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(Contd. of page 14)

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.

LIC