Printing date 05/20/2024 Reviewed on 05/20/2024

### 1 Identification

· Product identifier

· Trade name: Quality Control Standard

#21

· Article number: M8905

· 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



GHS05 Corrosion

Skin Corrosion 1A H314 Causes severe skin burns and eye damage.

Eye Damage 1 H318 Causes serious eye damage.



GHS07

Acute Toxicity - Oral 4 H302 Harmful if swallowed.

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





GHS07

GHS05

- · Signal word Danger
- · Hazard-determining components of labeling:

Nitric Acid

Hydrofluoric Acid 49-51% Aqueous Solution

· Hazard statements

Harmful if swallowed.

Causes severe skin burns and eye damage.

(Contd. on page 2)

Printing date 05/20/2024 Reviewed on 05/20/2024

Trade name: Quality Control Standard

(Contd. of page 1)

#### · Precautionary statements

Do not breathe dusts or mists.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Call a poison center/doctor if you feel unwell.

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.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 3Fire = 0

Reactivity = 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 com	ponents:	
CAS: 7697-37-2	Nitric Acid	5.0%
CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution	0.5%
· Table of Nonha	zardous Ingredients	
CAS: 7732-18-5	Water	93.79%
CAS: 87-69-4	L-Tartaric Acid	0.5%
CAS: 7439-89-6	Iron Metal	0.01%
CAS: 7439-92-1	lead powder [particle diameter < 1 mm]	0.01%
CAS: 7439-93-2	lithium	0.01%
CAS: 7439-95-4	Magnesium	0.01%
CAS: 7439-96-5	manganese	0.01%
CAS: 7439-98-7	Molybdenum Metal, 99.8%	0.01%
	•	(Contd. on page 3

Printing date 05/20/2024 Reviewed on 05/20/2024

Trade name: Quality Control Standard

	(Contd. of pa
CAS: 7440-02-0 Nickel Metal	0.0
CAS: 7440-24-6 strontium	0.0
CAS: 7440-28-0 thallium	0.0
CAS: 7440-32-6 Titanium Metal	0.0
CAS: 7440-36-0 Antimony Metal	0.0
CAS: 7440-38-2 arsenic	0.0
CAS: 7440-41-7 beryllium	0.0
CAS: 7440-43-9 cadmium Metal	0.0
CAS: 7440-47-3 chromium	0.0
CAS: 7440-48-4 cobalt	0.0
CAS: 7440-50-8 copper	0.0
CAS: 7440-62-2 vanadium	0.0
CAS: 7440-66-6 Zinc Metal	0.0
CAS: 7440-70-2 Calcium Metal	0.0
CAS: 7782-49-2 selenium	0.0

### 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:

Immediately call a doctor.

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.

HIC

Printing date 05/20/2024 Reviewed on 05/20/2024

Trade name: Quality Control Standard

#21

(Contd. of page 3)

### 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.

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: 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	$3.2  mg/m^3$
CAS: 7439-92-1	lead powder [particle diameter < 1 mm]	$0.15 \text{ mg/m}^3$
CAS: 7439-93-2	lithium	3.3 mg/m <sup>3</sup>
CAS: 7439-95-4	Magnesium	18 mg/m³
CAS: 7439-96-5	manganese	3 mg/m <sup>3</sup>
CAS: 7439-98-7	Molybdenum Metal, 99.8%	30 mg/m³
CAS: 7440-02-0	Nickel Metal	$4.5 \text{ mg/m}^3$
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	$1.5 \text{ mg/m}^3$
CAS: 7440-38-2	arsenic	$1.5 \text{ mg/m}^3$
CAS: 7440-41-7	beryllium	0.0023 mg/m
CAS: 7440-43-9	cadmium Metal	$0.10 \ mg/m^3$
CAS: 7440-47-3	chromium	$1.5 \text{ mg/m}^3$
CAS: 7440-48-4	cobalt	$0.18  mg/m^3$
CAS: 7440-50-8	copper	3 mg/m <sup>3</sup>
CAS: 7440-62-2	vanadium	3 mg/m <sup>3</sup>
CAS: 7440-66-6	Zinc Metal	6 mg/m³
CAS: 7782-49-2	selenium	0.6 mg/m³
PAC-2:		
CAS: 7697-37-2	Nitric Acid	24 ppm
CAS: 87-69-4	L-Tartaric Acid	17 mg/m³

Printing date 05/20/2024 Reviewed on 05/20/2024

Trade name: Quality Control Standard #21

CAS: 7664-39-3	Hydrofluoric Acid 49-51% Aqueous Solution	(Contd. of page 24 ppm
CAS: 7439-89-6	7	$35 \text{ mg/m}^3$
	lead powder [particle diameter < 1 mm]	$120 \text{ mg/m}^3$
CAS: 7439-93-2	4 -4	36 mg/m <sup>3</sup>
CAS: 7439-95-4	Magnesium	200 mg/m <sup>3</sup>
CAS: 7439-96-5		5 mg/m <sup>3</sup>
	Molybdenum Metal, 99.8%	330 mg/m <sup>3</sup>
CAS: 7440-02-0	l · · ·	50 mg/m <sup>3</sup>
CAS: 7440-24-6	strontium	330 mg/m <sup>3</sup>
CAS: 7440-28-0	thallium	3.3 mg/m <sup>3</sup>
CAS: 7440-32-6	Titanium Metal	330 mg/m <sup>3</sup>
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/m
CAS: 7440-43-9	cadmium Metal	$0.76 \text{ mg/m}^3$
CAS: 7440-47-3	chromium	17 mg/m³
CAS: 7440-48-4	cobalt	2 mg/m <sup>3</sup>
CAS: 7440-50-8	copper	33 mg/m <sup>3</sup>
CAS: 7440-62-2	vanadium	5.8 mg/m <sup>3</sup>
CAS: 7440-66-6	Zinc Metal	21 mg/m³
CAS: 7782-49-2	selenium	6.6 mg/m³
<i>PAC-3:</i>		
CAS: 7697-37-2	Nitric Acid	92 ppm
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/m
CAS: 7439-96-5	manganese	1,800 mg/m
CAS: 7439-98-7	Molybdenum Metal, 99.8%	2,000 mg/m
CAS: 7440-02-0	Nickel Metal	99 mg/m³
CAS: 7440-24-6	strontium	2,000 mg/m
CAS: 7440-28-0	thallium	20 mg/m³
CAS: 7440-32-6	Titanium Metal	2,000 mg/m
	Antimony Metal	80 mg/m³
CAS: 7440-38-2		100 mg/m³
CAS: 7440-41-7	·	0.1 mg/m³
	cadmium Metal	4.7 mg/m³
CAS: 7440-47-3	chromium	99 mg/m³
CAS: 7440-48-4	cobalt	20 mg/m³
	copper	200 mg/m <sup>3</sup>

Printing date 05/20/2024 Reviewed on 05/20/2024

Trade name: Quality Control Standard

		(Contd. of page 5)
CAS: 7440-62-2	vanadium	35 mg/m³
CAS: 7440-66-6	Zinc Metal	120 mg/m³
CAS: 7782-49-2	selenium	40 mg/m <sup>3</sup>

### 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: 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/m³, 2 ppm
TLV Short-term value: (4) NIC-0.025* ppm
Long-term value: (2) ppm
*inh. fraction + vapor, NIC-A4
CAS: 7664-39-3 Hydrofluoric Acid 49-51% Aqueous Solution

PEL Long-term value: 1\* mg/m³, 3 ppm as F, \*sulfuric acid

REL Long-term value: 2.5 mg/m³, 3 ppm Ceiling limit value: 5\* mg/m³, 6\* ppm

\*15-min, as F

TLV Long-term value: 0.5 ppm Ceiling limit value: 2 ppm

as F; Skin, BEI

(Contd. on page 7)

Printing date 05/20/2024 Reviewed on 05/20/2024

Trade name: Quality Control Standard

#21

(Contd. of page 6)

#### · Ingredients with biological limit values:

### CAS: 7664-39-3 Hydrofluoric Acid 49-51% Aqueous Solution

BEI 3 mg/g creatinine

LD50 Intraperitoneal: urine

Time: prior to shift

LD50: Fluorides (background, nonspecific)

10 mg/g creatinine

LD50 Intraperitoneal: urine

Time: end of shift

LD50: Fluorides (background, nonspecific)

- · 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

-US

Printing date 05/20/2024 Reviewed on 05/20/2024

Trade name: Quality Control Standard

#2.1

(Contd. of page 7)

Physical and chemical propert	ties	
Information on basic physical and c	hemical properties	
General Information		
Appearance:		
Form:	Liquid	
Color:	Grey, blue or green	
· 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:	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):	1.02796 g/cm³ (8.57833 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/wate	e <b>r</b> ): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Water:	93.8 %	
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
Solids content:	0.7 %	
Other information	No further relevant information available.	

## 10 Stability and reactivity

- $\cdot \textit{Reactivity No further relevant information available}.$
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

(Contd. on page 9)

Printing date 05/20/2024 Reviewed on 05/20/2024

Trade name: Quality Control Standard

#21

(Contd. of page 8)

- · 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 1	values tha	t are relevant for classification:
ATE (Acut	te Toxicity	Estimate)
Oral	LD50	1,000 mg/kg
Dermal	LD50	1,000 mg/kg
Inhalative		

- · 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: Harmful

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
2 <i>B</i>
1
1
1
3
2 <i>B</i>
3
R
R
K
K
K
R

Printing date 05/20/2024 Reviewed on 05/20/2024

Trade name: Quality Control Standard

(Contd. of page 9)

#### · 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 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even small quantities leak into the ground.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pHvalue 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.

## 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-	Marra	. L
•	( / / V =	/ V LL II	mer

UN1760 · DOT, IMDG, IATA

· UN proper shipping name

 $\cdot DOT$ Corrosive liquids, n.o.s. (Nitric Acid) · IMDG, IATA

CORROSIVE LIQUID, N.O.S. (Nitric Acid)

(Contd. on page 11)

Printing date 05/20/2024 Reviewed on 05/20/2024

Trade name: Quality Control Standard

#21

(Contd. of page 10)

· Transport hazard class(es)

 $\cdot DOT$ 



· Class 8 Corrosive substances

· Label

· IMDG, IATA



· Class 8 Corrosive substances

· Label

· Packing group

· DOT, IMDG, IATA III

· Environmental hazards:

· Marine pollutant: No

· Special precautions for user Warning: Corrosive substances

· Hazard identification number (Kemler code): 86
 · 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.

· Transport/Additional information:

 $\cdot DOT$ 

• Quantity limitations On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L

 $\cdot$  IMDG

Limited quantities (LQ)
 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. (NITRIC ACID), 8, III

## 15 Regulatory information

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

(Contd. on page 12)

Printing date 05/20/2024 Reviewed on 05/20/2024

Trade name: Quality Control Standard #21

Sara	(Contd. of pag
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]	
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	ACTI
Nitric Acid	ACTI
L-Tartaric Acid	ACTI
Hydrofluoric Acid 49-51% Aqueous Solution	ACTI
Iron Metal	ACTI
lead powder [particle diameter < 1 mm]	ACTI
lithium	ACTI
Magnesium	ACTI
manganese	ACTI
Molybdenum Metal, 99.8%	ACTI
Nickel Metal	ACTI
strontium	ACTI
thallium	ACTI
Titanium Metal	ACTI
Antimony Metal	ACTI
arsenic	ACTI
beryllium	ACTI
cadmium Metal	ACTI
chromium	ACTI
cobalt	ACTI

Printing date 05/20/2024 Reviewed on 05/20/2024

Trade name: Quality Control Standard #21

copper		(Contd. of pag
vanadium		ACTI
Zinc Metal		ACTI
Calcium Metal		ACTI
selenium		ACTI
· Hazardous Air P	ollutants	
	Hydrofluoric Acid 49-51% Aqueous Solution	
	lead powder [particle diameter < 1 mm]	
CAS: 7439-96-5	•	
CAS: 7440-48-4	~	
Proposition 65		
-	n 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 know	n to cause reproductive toxicity for females:	
None of the ingre	dients is listed.	
· Chemicals know	n to cause reproductive toxicity for males:	
CAS: 7440-43-9	cadmium Metal	
· Chemicals know	n to cause developmental toxicity:	
CAS: 7440-43-9	cadmium Metal	
· Carcinogenic cai	tegaries	
	ental Protection Agency)	
CAS: 7439-96-5	- · ·	D
CAS: 7440-38-2	~	
CAS: 7440-41-7	beryllium	B1, K/L(inh), CBD(or
CAS: 7440-43-9		BI
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%	
CAS: 7440-02-0	Nickel Metal	
CAS: 7440-38-2	arsenic	
CAS: 7440-41-7	beryllium	
CAS: 7440-43-9	cadmium Metal	
	7 •	
CAS: 7440-47-3	chromium	

Printing date 05/20/2024 Reviewed on 05/20/2024

Trade name: Quality Control Standard

#21

(Contd. of page 13)

· NIOSH-Ca (National Institute for Occupational Safety and Health)	
CAS: 7440-02-0	Nickel Metal
CAS: 7440-38-2	arsenic
CAS: 7440-41-7	
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 GHS07

- · Signal word Danger
- · Hazard-determining components of labeling:

Nitric Acid

Hydrofluoric Acid 49-51% Aqueous Solution

· Hazard statements

Harmful if swallowed.

Causes severe skin burns and eye damage.

· Precautionary statements

Do not breathe dusts or mists.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Call a poison center/doctor if you feel unwell.

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, 05/20/2024: Reviewed SDS for accuracy. MH/STN 05/20/2024

· Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

(Contd. on page 15)

Printing date 05/20/2024 Reviewed on 05/20/2024

Trade name: Quality Control Standard
#21

(Contd. of page 14)

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

BEI: Biological Exposure Limit

Acute Toxicity - Oral 4: Acute toxicity - Category 4

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.

US