

## Safety Data Sheet

acc. to OSHA HCS

Printing date 07/13/2021

Reviewed on 07/13/2021

### 1 Identification

- **Product identifier**
- **Trade name:** Quality Control Standard 21
- **Article number:** QCS-21
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*High-Purity Standards*  
7221 Investment Drive, North Charleston, SC 29418 United States  
Telephone: +1-843-767-7900  
Fax: +1-843-767-7906  
*highpuritystandards.com*  
Email: *info@highpuritystandards.com*
- **Information department:** Product safety department
- **Emergency telephone number:**  
INFOTRAC  
Emergency telephone numbers 1-800-535-5053  
Other emergency telephone numbers 1-352-323-3500

### 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS05 Corrosion

Met. Corr. 1 H290 May be corrosive to metals.  
Skin Corr. 1A H314 Causes severe skin burns and eye damage.  
Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H312 Harmful in contact with skin.

- **Label elements**
- **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*

(Contd. on page 2)

## Safety Data Sheet

acc. to OSHA HCS

Printing date 07/13/2021

Reviewed on 07/13/2021

**Trade name: Quality Control Standard 21**

(Contd. of page 1)

*hydrogen fluoride***Hazard statements***H290 May be corrosive to metals.**H312 Harmful in contact with skin.**H314 Causes severe skin burns and eye damage.***Precautionary statements***Keep only in original container.**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).**Take off contaminated clothing and wash it before reuse.**Wash contaminated clothing before reuse.**Absorb spillage to prevent material damage.**Store locked up.**Store in corrosive resistant container with a resistant inner liner.**Dispose of contents/container in accordance with local/regional/national/international regulations.***Classification system:****NFPA ratings (scale 0 - 4)***Health = 3**Fire = 0**Reactivity = 0***HMIS-ratings (scale 0 - 4)***Health = 3**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.*

(Contd. on page 3)

US

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 07/13/2021

Reviewed on 07/13/2021

**Trade name: Quality Control Standard 21**

(Contd. of page 2)

<b>· Dangerous components:</b>		
7697-37-2	nitric acid	4.0%
7664-39-3	hydrogen fluoride	0.49%
<b>· Chemical identification of the substance/preparation</b>		
7732-18-5	water, distilled, conductivity or of similar purity	95.3%
471-34-1	calcium carbonate	0.01%
543-81-7	beryllium acetate	0.01%
554-13-2	lithium carbonate	0.01%
6156-78-1	Manganese(II) acetate tetrahydrate	0.01%
7439-89-6	iron	0.01%
7439-92-1	lead	0.01%
7439-95-4	magnesium	0.01%
7439-98-7	molybdenum	0.01%
7440-02-0	nickel	0.01%
7440-28-0	thallium	0.01%
7440-32-6	titanium	0.01%
7440-36-0	antimony	0.01%
7440-38-2	arsenic	0.01%
7440-43-9	cadmium	0.01%
7440-47-3	chromium	0.01%
7440-48-4	cobalt	0.01%
7440-50-8	copper	0.01%
7440-66-6	zinc	0.01%
7782-49-2	selenium	0.01%
7803-55-6	Ammonium Vanadate	0.01%
10042-76-9	strontium nitrate	0.01%

**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:** Drink copious amounts of water and provide fresh air. Immediately call a doctor.

(Contd. on page 4)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 07/13/2021

Reviewed on 07/13/2021

**Trade name: Quality Control Standard 21**

(Contd. of page 3)

- **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:** 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 item 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:**

7697-37-2	nitric acid	0.16 ppm
7664-39-3	hydrogen fluoride	1.0 ppm
471-34-1	calcium carbonate	45 mg/m <sup>3</sup>
554-13-2	lithium carbonate	3.1 mg/m <sup>3</sup>
6156-78-1	Manganese(II) acetate tetrahydrate	13 mg/m <sup>3</sup>
7439-89-6	iron	3.2 mg/m <sup>3</sup>
7439-92-1	lead	0.15 mg/m <sup>3</sup>
7439-95-4	magnesium	18 mg/m <sup>3</sup>
7439-98-7	molybdenum	30 mg/m <sup>3</sup>
7440-02-0	nickel	4.5 mg/m <sup>3</sup>
7440-28-0	thallium	0.06 mg/m <sup>3</sup>

(Contd. on page 5)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 07/13/2021

Reviewed on 07/13/2021

**Trade name: Quality Control Standard 21**

(Contd. of page 4)

7440-32-6	titanium	30 mg/m <sup>3</sup>
7440-36-0	antimony	1.5 mg/m <sup>3</sup>
7440-38-2	arsenic	1.5 mg/m <sup>3</sup>
7440-43-9	cadmium	0.10 mg/m <sup>3</sup>
7440-47-3	chromium	1.5 mg/m <sup>3</sup>
7440-48-4	cobalt	0.18 mg/m <sup>3</sup>
7440-50-8	copper	3 mg/m <sup>3</sup>
7440-66-6	zinc	6 mg/m <sup>3</sup>
7782-49-2	selenium	0.6 mg/m <sup>3</sup>
7803-55-6	Ammonium Vanadate	0.01 mg/m <sup>3</sup>
10042-76-9	strontium nitrate	5.7 mg/m <sup>3</sup>

**PAC-2:**

7697-37-2	nitric acid	24 ppm
7664-39-3	hydrogen fluoride	24 ppm
471-34-1	calcium carbonate	210 mg/m <sup>3</sup>
554-13-2	lithium carbonate	34 mg/m <sup>3</sup>
6156-78-1	Manganese(II) acetate tetrahydrate	22 mg/m <sup>3</sup>
7439-89-6	iron	35 mg/m <sup>3</sup>
7439-92-1	lead	120 mg/m <sup>3</sup>
7439-95-4	magnesium	200 mg/m <sup>3</sup>
7439-98-7	molybdenum	330 mg/m <sup>3</sup>
7440-02-0	nickel	50 mg/m <sup>3</sup>
7440-28-0	thallium	3.3 mg/m <sup>3</sup>
7440-32-6	titanium	330 mg/m <sup>3</sup>
7440-36-0	antimony	13 mg/m <sup>3</sup>
7440-38-2	arsenic	17 mg/m <sup>3</sup>
7440-43-9	cadmium	0.76 mg/m <sup>3</sup>
7440-47-3	chromium	17 mg/m <sup>3</sup>
7440-48-4	cobalt	2 mg/m <sup>3</sup>
7440-50-8	copper	33 mg/m <sup>3</sup>
7440-66-6	zinc	21 mg/m <sup>3</sup>
7782-49-2	selenium	6.6 mg/m <sup>3</sup>
7803-55-6	Ammonium Vanadate	0.11 mg/m <sup>3</sup>
10042-76-9	strontium nitrate	62 mg/m <sup>3</sup>

**PAC-3:**

7697-37-2	nitric acid	92 ppm
7664-39-3	hydrogen fluoride	44 ppm

(Contd. on page 6)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 07/13/2021

Reviewed on 07/13/2021

**Trade name: Quality Control Standard 21**

(Contd. of page 5)

471-34-1	calcium carbonate	1,300 mg/m <sup>3</sup>
554-13-2	lithium carbonate	210 mg/m <sup>3</sup>
6156-78-1	Manganese(II) acetate tetrahydrate	740 mg/m <sup>3</sup>
7439-89-6	iron	150 mg/m <sup>3</sup>
7439-92-1	lead	700 mg/m <sup>3</sup>
7439-95-4	magnesium	1,200 mg/m <sup>3</sup>
7439-98-7	molybdenum	2,000 mg/m <sup>3</sup>
7440-02-0	nickel	99 mg/m <sup>3</sup>
7440-28-0	thallium	20 mg/m <sup>3</sup>
7440-32-6	titanium	2,000 mg/m <sup>3</sup>
7440-36-0	antimony	80 mg/m <sup>3</sup>
7440-38-2	arsenic	100 mg/m <sup>3</sup>
7440-43-9	cadmium	4.7 mg/m <sup>3</sup>
7440-47-3	chromium	99 mg/m <sup>3</sup>
7440-48-4	cobalt	20 mg/m <sup>3</sup>
7440-50-8	copper	200 mg/m <sup>3</sup>
7440-66-6	zinc	120 mg/m <sup>3</sup>
7782-49-2	selenium	40 mg/m <sup>3</sup>
7803-55-6	Ammonium Vanadate	80 mg/m <sup>3</sup>
10042-76-9	strontium nitrate	370 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 item 7.

(Contd. on page 7)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 07/13/2021

Reviewed on 07/13/2021

**Trade name: Quality Control Standard 21**

(Contd. of page 6)

· **Control parameters**

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

**7697-37-2 nitric acid**

PEL	Long-term value: 5 mg/m <sup>3</sup> , 2 ppm
REL	Short-term value: 10 mg/m <sup>3</sup> , 4 ppm Long-term value: 5 mg/m <sup>3</sup> , 2 ppm
TLV	Short-term value: 10 mg/m <sup>3</sup> , 4 ppm Long-term value: 5.2 mg/m <sup>3</sup> , 2 ppm

**7664-39-3 hydrogen fluoride**

PEL	Long-term value: 3 ppm as F
REL	Long-term value: 2.5 mg/m <sup>3</sup> , 3 ppm Ceiling limit value: 5* mg/m <sup>3</sup> , 6* ppm *15-min, as F
TLV	Long-term value: 0.41 mg/m <sup>3</sup> , 0.5 ppm Ceiling limit value: 1.64 mg/m <sup>3</sup> , 2 ppm as F; Skin, BEI

· **Ingredients with biological limit values:**

**7664-39-3 hydrogen fluoride**

BEI	3 mg/g creatinine Medium: urine Time: prior to shift Parameter: Fluorides (background, nonspecific)
	10 mg/g creatinine Medium: urine Time: end of shift Parameter: 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.

(Contd. on page 8)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 07/13/2021

Reviewed on 07/13/2021

**Trade name: Quality Control Standard 21**

(Contd. of page 7)

· **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

**9 Physical and chemical properties**

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· <b>Form:</b>	Liquid
· <b>Color:</b>	Light grey
· <b>Odor:</b>	Characteristic
· <b>Odor threshold:</b>	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

· <b>Melting point/Melting range:</b>	Undetermined.
· <b>Boiling point/Boiling range:</b>	100 °C (212 °F)

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** Not applicable.

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

(Contd. on page 9)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 07/13/2021

Reviewed on 07/13/2021

**Trade name: Quality Control Standard 21**

(Contd. of page 8)

· <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Vapor pressure at 20 °C (68 °F):</b>	23 hPa (17.3 mm Hg)
· <b>Density:</b>	Not determined.
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Water:</b>	95.3 %
<b>VOC content:</b>	0.00 %
	0.0 g/l / 0.00 lb/gal
<b>Solids content:</b>	0.2 %
· <b>Other information</b>	No further relevant information available.

**10 Stability and reactivity**

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

**11 Toxicological information**

- **Information on toxicological effects**
- **Acute toxicity:**

· <b>LD/LC50 values that are relevant for classification:</b>		
7664-39-3 hydrogen fluoride		
Oral	LD50	1,276 mg/kg (rat)

(Contd. on page 10)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 07/13/2021

Reviewed on 07/13/2021

**Trade name: Quality Control Standard 21**

(Contd. of page 9)

- **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**

· <b>IARC (International Agency for Research on Cancer)</b>		
543-81-7	beryllium acetate	I
7439-92-1	lead	2B
7440-02-0	nickel	2B
7440-38-2	arsenic	I
7440-43-9	cadmium	I
7440-47-3	chromium	3
7440-48-4	cobalt	2B
7782-49-2	selenium	3
· <b>NTP (National Toxicology Program)</b>		
543-81-7	beryllium acetate	K
7439-92-1	lead	R
7440-02-0	nickel	R
7440-38-2	arsenic	K
7440-43-9	cadmium	K
7440-48-4	cobalt	R
· <b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>		
7440-38-2	arsenic	
7440-43-9	cadmium	

**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.

(Contd. on page 11)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 07/13/2021

Reviewed on 07/13/2021

**Trade name: Quality Control Standard 21**

(Contd. of page 10)

- **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.*

**14 Transport information**

- **UN-Number**
- **DOT, ADR, IMDG, IATA** UN3264
- **UN proper shipping name**
- **DOT** Corrosive liquid, acidic, inorganic, n.o.s. (Nitric acid, Hydrogen fluoride)
- **ADR** 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID, HYDROGEN FLUORIDE)
- **IMDG, IATA** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID, HYDROGEN FLUORIDE)
- **Transport hazard class(es)**
- **DOT**
-  CORROSIVE 8
- **Class** 8 Corrosive substances

(Contd. on page 12)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 07/13/2021

Reviewed on 07/13/2021

Trade name: **Quality Control Standard 21**

(Contd. of page 11)

· **Label** 8

· **ADR**



· **Class** 8 (C1) Corrosive substances

· **Label** 8

· **IMDG, IATA**



· **Class** 8 Corrosive substances

· **Label** 8

· **Packing group** III

· **DOT, ADR, IMDG, IATA** III

· **Environmental hazards:** Not applicable.

· **Special precautions for user** Warning: Corrosive substances

· **Hazard identification number (Kemler code):** 80

· **EMS Number:** F-A,S-B

· **Segregation groups** Acids

· **Stowage Category** A

· **Stowage Code** SW2 Clear of living quarters.

· **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **DOT**

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

· **ADR**

· **Excepted quantities (EQ)** Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml

· **IMDG**

· **Limited quantities (LQ)** 5L

· **Excepted quantities (EQ)** Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml

(Contd. on page 13)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 07/13/2021

Reviewed on 07/13/2021

**Trade name: Quality Control Standard 21**

(Contd. of page 12)

· **UN "Model Regulation":** UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID, HYDROGEN FLUORIDE), 8, III

**15 Regulatory information**

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
· **Sara**

· **Section 355 (extremely hazardous substances):**

7697-37-2	nitric acid
7664-39-3	hydrogen fluoride

· **Section 313 (Specific toxic chemical listings):**

7697-37-2	nitric acid
7664-39-3	hydrogen fluoride
543-81-7	beryllium acetate
554-13-2	lithium carbonate
7439-92-1	lead
7440-02-0	nickel
7440-28-0	thallium
7440-36-0	antimony
7440-38-2	arsenic
7440-43-9	cadmium
7440-47-3	chromium
7440-48-4	cobalt
7440-50-8	copper
7440-66-6	zinc
7782-49-2	selenium
7803-55-6	Ammonium Vanadate
10042-76-9	strontium nitrate

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

7732-18-5	water, distilled, conductivity or of similar purity	ACTIVE
7697-37-2	nitric acid	ACTIVE
7664-39-3	hydrogen fluoride	ACTIVE
471-34-1	calcium carbonate	ACTIVE
554-13-2	lithium carbonate	ACTIVE
7439-89-6	iron	ACTIVE
7439-92-1	lead	ACTIVE
7439-95-4	magnesium	ACTIVE

(Contd. on page 14)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 07/13/2021

Reviewed on 07/13/2021

**Trade name: Quality Control Standard 21**

(Contd. of page 13)

7439-98-7	molybdenum	ACTIVE
7440-02-0	nickel	ACTIVE
7440-28-0	thallium	ACTIVE
7440-32-6	titanium	ACTIVE
7440-36-0	antimony	ACTIVE
7440-38-2	arsenic	ACTIVE
7440-43-9	cadmium	ACTIVE
7440-47-3	chromium	ACTIVE
7440-48-4	cobalt	ACTIVE
7440-50-8	copper	ACTIVE
7440-66-6	zinc	ACTIVE
7782-49-2	selenium	ACTIVE
7803-55-6	Ammonium Vanadate	ACTIVE
10042-76-9	strontium nitrate	ACTIVE

**· Hazardous Air Pollutants**

7664-39-3	hydrogen fluoride
7439-92-1	lead
7440-48-4	cobalt

**· Proposition 65**

**· Chemicals known to cause cancer:**

543-81-7	beryllium acetate
7439-92-1	lead
7440-02-0	nickel
7440-38-2	arsenic
7440-43-9	cadmium
7440-48-4	cobalt

**· Chemicals known to cause reproductive toxicity for females:**

7439-92-1	lead
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**· Chemicals known to cause reproductive toxicity for males:**

7439-92-1	lead
7440-43-9	cadmium

**· Chemicals known to cause developmental toxicity:**

554-13-2	lithium carbonate
7439-92-1	lead
7440-43-9	cadmium

(Contd. on page 15)

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 07/13/2021

Reviewed on 07/13/2021

**Trade name: Quality Control Standard 21**

(Contd. of page 14)

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

7439-92-1	lead	B2
7440-38-2	arsenic	A
7440-43-9	cadmium	B1
7440-47-3	chromium	D
7440-50-8	copper	D
7440-66-6	zinc	D, I, II
7782-49-2	selenium	D

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

7439-92-1	lead	A3
7439-98-7	molybdenum	A3
7440-02-0	nickel	A5
7440-38-2	arsenic	A1
7440-43-9	cadmium	A2
7440-47-3	chromium	A4
7440-48-4	cobalt	A3

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

543-81-7	beryllium acetate
7440-02-0	nickel
7440-38-2	arsenic
7440-43-9	cadmium

· **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

hydrogen fluoride

· **Hazard statements**

H290 May be corrosive to metals.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

· **Precautionary statements**

Keep only in original container.

Do not breathe dusts or mists.

(Contd. on page 16)

## Safety Data Sheet

acc. to OSHA HCS

Printing date 07/13/2021

Reviewed on 07/13/2021

**Trade name: Quality Control Standard 21**

(Contd. of page 15)

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).

Take off contaminated clothing and wash it before reuse.

Wash contaminated clothing before reuse.

Absorb spillage to prevent material damage.

Store locked up.

Store in corrosive resistant container with a resistant inner liner.

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:**

High-Purity Standards

Tel: 843-767-7900

Fax: 843-767-7906

· **Date of preparation / last revision** 07/13/2021 / -

· **Abbreviations and acronyms:**

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

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

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

Met. Corr.1: Corrosive to metals – Category 1

(Contd. on page 17)



**Safety Data Sheet**  
*acc. to OSHA HCS*

Printing date 07/13/2021

Reviewed on 07/13/2021

**Trade name: Quality Control Standard 21**

*Acute Tox. 4: Acute toxicity – Category 4*  
*Skin Corr. 1A: Skin corrosion/irritation – Category 1A*  
*Eye Dam. 1: Serious eye damage/eye irritation – Category 1*

(Contd. of page 16)

US