

## Safety Data Sheet

acc. to OSHA HCS

Printing date 08/18/2022

Reviewed on 08/18/2022

### 1 Identification

- **Product identifier**
- **Trade name:** Quality Control Standard 26
- **Article number:** QCS-26
- **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](http://highpuritystandards.com)  
Email: [info@highpuritystandards.com](mailto: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

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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)****HMIS-ratings (scale 0 - 4)****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.

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<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	95.165%
7757-79-1	potassium nitrate	0.1%
471-34-1	calcium carbonate	0.01%
497-19-8	sodium carbonate	0.01%
513-77-9	barium carbonate	0.01%
543-81-7	beryllium acetate	0.01%
6156-78-1	Manganese(II) acetate tetrahydrate	0.01%
7429-90-5	aluminium	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%
7440-22-4	silver	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%
10043-35-3	boric acid	0.01%
16919-19-0	ammonium hexafluorosilicate	0.005%

**4 First-aid measures**

· **Description of first aid measures**

· **General information:**

Immediately remove any clothing soiled by the product.

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- 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.
- **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
7757-79-1	potassium nitrate	9 mg/m <sup>3</sup>
471-34-1	calcium carbonate	45 mg/m <sup>3</sup>
497-19-8	sodium carbonate	7.6 mg/m <sup>3</sup>
513-77-9	barium carbonate	2.2 mg/m <sup>3</sup>

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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>
7440-22-4	silver	0.3 mg/m <sup>3</sup>
7440-28-0	thallium	0.06 mg/m <sup>3</sup>
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>
10043-35-3	boric acid	6 mg/m <sup>3</sup>
16919-19-0	ammonium hexafluorosilicate	12 mg/m <sup>3</sup>

**PAC-2:**

7697-37-2	nitric acid	24 ppm
7664-39-3	hydrogen fluoride	24 ppm
7757-79-1	potassium nitrate	100 mg/m <sup>3</sup>
471-34-1	calcium carbonate	210 mg/m <sup>3</sup>
497-19-8	sodium carbonate	83 mg/m <sup>3</sup>
513-77-9	barium carbonate	270 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>
7440-22-4	silver	170 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>

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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>
10043-35-3	boric acid	23 mg/m <sup>3</sup>
16919-19-0	ammonium hexafluorosilicate	130 mg/m <sup>3</sup>

**PAC-3:**

7697-37-2	nitric acid	92 ppm
7664-39-3	hydrogen fluoride	44 ppm
7757-79-1	potassium nitrate	600 mg/m <sup>3</sup>
471-34-1	calcium carbonate	1,300 mg/m <sup>3</sup>
497-19-8	sodium carbonate	500 mg/m <sup>3</sup>
513-77-9	barium carbonate	1,600 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>
7440-22-4	silver	990 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>
10043-35-3	boric acid	830 mg/m <sup>3</sup>

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16919-19-0 ammonium hexafluorosilicate

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780 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.
- **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: 4 ppm Long-term value: 2 ppm

**7664-39-3 hydrogen fluoride**

PEL	Long-term value: 1* mg/m <sup>3</sup> , 3 ppm as F, *sulfuric acid
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: 0.5 ppm Ceiling limit value: 2 ppm as F; Skin, BEI

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**· 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.

**· 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.

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· **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>	According to product specification
· <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.

· **Explosion limits:**

· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.

· **Vapor pressure at 20 °C (68 °F):** 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.

· **Solubility in / Miscibility with**

· **Water:** Not miscible or difficult to mix.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

· <b>Dynamic:</b>	Not determined.
· <b>Kinematic:</b>	Not determined.

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· <b>Solvent content:</b>	
<b>Water:</b>	95.2 %
<b>VOC content:</b>	0.00 % 0.0 g/l / 0.00 lb/gal
· <b>Solids content:</b>	0.3 %
· <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)

- **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

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7439-92-1	lead	2B
7440-02-0	nickel	2B
7440-38-2	arsenic	1
7440-43-9	cadmium	1
7440-47-3	chromium	3
7440-48-4	cobalt	2B
7782-49-2	selenium	3

**· NTP (National Toxicology Program)**

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

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

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.
- **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.

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**13 Disposal considerations**

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

**14 Transport information**

· <b>UN-Number</b>	UN3264
· <b>DOT, ADR, IMDG, IATA</b>	
· <b>UN proper shipping name</b>	Corrosive liquid, acidic, inorganic, n.o.s. (Nitric acid)
· <b>DOT</b>	3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID)
· <b>ADR</b>	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID)
· <b>IMDG, IATA</b>	
· <b>Transport hazard class(es)</b>	
· <b>DOT</b>	
	
· <b>Class</b>	8 Corrosive substances
· <b>Label</b>	8
· <b>ADR</b>	
	
· <b>Class</b>	8 (C1) Corrosive substances
· <b>Label</b>	8
· <b>IMDG, IATA</b>	
	
· <b>Class</b>	8 Corrosive substances
· <b>Label</b>	8

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· <b>Packing group</b> · <b>DOT, ADR, IMDG, IATA</b>	<i>III</i>
· <b>Environmental hazards:</b>	<i>Not applicable.</i>
· <b>Special precautions for user</b> · <b>Hazard identification number (Kemler code):</b> · <b>EMS Number:</b> · <b>Segregation groups</b> · <b>Stowage Category</b> · <b>Stowage Code</b>	<i>Warning: Corrosive substances</i> <i>80</i> <i>F-A,S-B</i> <i>Acids</i> <i>A</i> <i>SW2 Clear of living quarters.</i>
· <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	<i>Not applicable.</i>
· <b>Transport/Additional information:</b> · <b>DOT</b> · <b>Quantity limitations</b>	<i>On passenger aircraft/rail: 5 L</i> <i>On cargo aircraft only: 60 L</i>
· <b>ADR</b> · <b>Excepted quantities (EQ)</b>	<i>Code: E1</i> <i>Maximum net quantity per inner packaging: 30 ml</i> <i>Maximum net quantity per outer packaging: 1000 ml</i>
· <b>IMDG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	<i>5L</i> <i>Code: E1</i> <i>Maximum net quantity per inner packaging: 30 ml</i> <i>Maximum net quantity per outer packaging: 1000 ml</i>
· <b>UN "Model Regulation":</b>	<i>UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID), 8, III</i>

**15 Regulatory information**

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

· **Sara**

· <b>Section 355 (extremely hazardous substances):</b>	
7697-37-2	<i>nitric acid</i>
7664-39-3	<i>hydrogen fluoride</i>

· <b>Section 313 (Specific toxic chemical listings):</b>	
7697-37-2	<i>nitric acid</i>
7664-39-3	<i>hydrogen fluoride</i>
7757-79-1	<i>potassium nitrate</i>

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513-77-9	barium carbonate
543-81-7	beryllium acetate
7429-90-5	aluminium
7439-92-1	lead
7440-02-0	nickel
7440-22-4	silver
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

**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
7757-79-1	potassium nitrate	ACTIVE
471-34-1	calcium carbonate	ACTIVE
497-19-8	sodium carbonate	ACTIVE
513-77-9	barium carbonate	ACTIVE
7429-90-5	aluminium	ACTIVE
7439-89-6	iron	ACTIVE
7439-92-1	lead	ACTIVE
7439-95-4	magnesium	ACTIVE
7439-98-7	molybdenum	ACTIVE
7440-02-0	nickel	ACTIVE
7440-22-4	silver	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

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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
10043-35-3	boric acid	ACTIVE
16919-19-0	ammonium hexafluorosilicate	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:**

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

**· Carcinogenic categories**

**· EPA (Environmental Protection Agency)**

513-77-9	barium carbonate	D, CBD(inh), NL(oral)
7439-92-1	lead	B2
7440-22-4	silver	D
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

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7782-49-2	selenium	D
10043-35-3	boric acid	I (oral)

**· TLV (Threshold Limit Value)**

513-77-9	barium carbonate	A4
7429-90-5	aluminium	A4
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
10043-35-3	boric acid	A4

**· 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.  
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.

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*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** *08/18/2022 / -*

· **Abbreviations and acronyms:**

*ADR: Accord relatif au transport international 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*

*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*

*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*