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
    PO Box 41727 Charleston, SC 29423 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
  Hydrofluoric acid

· **Hazard statements**
  H290 May be corrosive to metals.
  H312 Harmful in contact with skin.

(Contd. on page 2)
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 Health = 3
  - FIRE Fire = 0
  - REACTIVITY 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.

- Dangerous components:
  - 7697-37-2 nitric acid 4.0%
  - 7664-39-3 Hydrofluoric acid 0.49%

Chemical identification of the substance/preparation
- 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%
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.
· 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

<table>
<thead>
<tr>
<th>PAC-1:</th>
<th>0.16 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>7697-37-2</td>
<td>nitric acid</td>
</tr>
<tr>
<td>7664-39-3</td>
<td>Hydrofluoric acid</td>
</tr>
<tr>
<td>7757-79-1</td>
<td>potassium nitrate</td>
</tr>
<tr>
<td>471-34-1</td>
<td>calcium carbonate</td>
</tr>
<tr>
<td>497-19-8</td>
<td>sodium carbonate</td>
</tr>
<tr>
<td>513-77-9</td>
<td>barium carbonate</td>
</tr>
<tr>
<td>6156-78-1</td>
<td>Manganese(II) acetate tetrahydrate</td>
</tr>
<tr>
<td>7439-89-6</td>
<td>iron</td>
</tr>
<tr>
<td>7439-92-1</td>
<td>lead</td>
</tr>
<tr>
<td>7439-93-4</td>
<td>magnesium</td>
</tr>
<tr>
<td>7439-98-7</td>
<td>molybdenum</td>
</tr>
<tr>
<td>7440-02-0</td>
<td>nickel</td>
</tr>
<tr>
<td>7440-22-4</td>
<td>silver</td>
</tr>
<tr>
<td>7440-28-0</td>
<td>thallium</td>
</tr>
<tr>
<td>7440-32-6</td>
<td>titanium</td>
</tr>
<tr>
<td>7440-36-0</td>
<td>antimony</td>
</tr>
<tr>
<td>7440-38-2</td>
<td>arsenic</td>
</tr>
<tr>
<td>7440-43-9</td>
<td>cadmium (non-pyrophoric)</td>
</tr>
</tbody>
</table>

(Contd. on page 5)
<table>
<thead>
<tr>
<th>Substance Code</th>
<th>Substance</th>
<th>Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>7440-47-3</td>
<td>chromium</td>
<td>1.5 mg/m³</td>
</tr>
<tr>
<td>7440-48-4</td>
<td>cobalt</td>
<td>0.18 mg/m³</td>
</tr>
<tr>
<td>7440-50-8</td>
<td>copper</td>
<td>3 mg/m³</td>
</tr>
<tr>
<td>7440-66-6</td>
<td>zinc</td>
<td>6 mg/m³</td>
</tr>
<tr>
<td>7782-49-2</td>
<td>selenium</td>
<td>0.6 mg/m³</td>
</tr>
<tr>
<td>7803-55-6</td>
<td>Ammonium Vanadate</td>
<td>0.01 mg/m³</td>
</tr>
<tr>
<td>10043-35-3</td>
<td>boric acid</td>
<td>6 mg/m³</td>
</tr>
<tr>
<td>16919-19-0</td>
<td>ammonium hexafluorosilicate</td>
<td>12 mg/m³</td>
</tr>
</tbody>
</table>

**PAC-2:**

<table>
<thead>
<tr>
<th>Substance Code</th>
<th>Substance</th>
<th>Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>7697-37-2</td>
<td>nitric acid</td>
<td>24 ppm</td>
</tr>
<tr>
<td>7664-39-3</td>
<td>Hydrofluoric acid</td>
<td>24 ppm</td>
</tr>
<tr>
<td>7757-79-1</td>
<td>potassium nitrate</td>
<td>100 mg/m³</td>
</tr>
<tr>
<td>471-34-1</td>
<td>calcium carbonate</td>
<td>210 mg/m³</td>
</tr>
<tr>
<td>497-19-8</td>
<td>sodium carbonate</td>
<td>83 mg/m³</td>
</tr>
<tr>
<td>513-77-9</td>
<td>barium carbonate</td>
<td>270 mg/m³</td>
</tr>
<tr>
<td>6156-78-1</td>
<td>Manganese(II) acetate tetrahydrate</td>
<td>22 mg/m³</td>
</tr>
<tr>
<td>7439-89-6</td>
<td>iron</td>
<td>35 mg/m³</td>
</tr>
<tr>
<td>7439-92-1</td>
<td>lead</td>
<td>120 mg/m³</td>
</tr>
<tr>
<td>7439-95-4</td>
<td>magnesium</td>
<td>200 mg/m³</td>
</tr>
<tr>
<td>7439-98-7</td>
<td>molybdenum</td>
<td>330 mg/m³</td>
</tr>
<tr>
<td>7440-02-0</td>
<td>nickel</td>
<td>50 mg/m³</td>
</tr>
<tr>
<td>7440-22-4</td>
<td>silver</td>
<td>170 mg/m³</td>
</tr>
<tr>
<td>7440-28-0</td>
<td>thallium</td>
<td>3.3 mg/m³</td>
</tr>
<tr>
<td>7440-32-6</td>
<td>titanium</td>
<td>330 mg/m³</td>
</tr>
<tr>
<td>7440-36-0</td>
<td>antimony</td>
<td>13 mg/m³</td>
</tr>
<tr>
<td>7440-38-2</td>
<td>arsenic</td>
<td>17 mg/m³</td>
</tr>
<tr>
<td>7440-43-9</td>
<td>cadmium (non-pyrophoric)</td>
<td>0.76 mg/m³</td>
</tr>
<tr>
<td>7440-47-3</td>
<td>chromium</td>
<td>17 mg/m³</td>
</tr>
<tr>
<td>7440-48-4</td>
<td>cobalt</td>
<td>2 mg/m³</td>
</tr>
<tr>
<td>7440-50-8</td>
<td>copper</td>
<td>33 mg/m³</td>
</tr>
<tr>
<td>7440-66-6</td>
<td>zinc</td>
<td>21 mg/m³</td>
</tr>
<tr>
<td>7782-49-2</td>
<td>selenium</td>
<td>6.6 mg/m³</td>
</tr>
<tr>
<td>7803-55-6</td>
<td>Ammonium Vanadate</td>
<td>0.11 mg/m³</td>
</tr>
<tr>
<td>10043-35-3</td>
<td>boric acid</td>
<td>23 mg/m³</td>
</tr>
<tr>
<td>16919-19-0</td>
<td>ammonium hexafluorosilicate</td>
<td>130 mg/m³</td>
</tr>
</tbody>
</table>

**PAC-3:**

<table>
<thead>
<tr>
<th>Substance Code</th>
<th>Substance</th>
<th>Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>7697-37-2</td>
<td>nitric acid</td>
<td>92 ppm</td>
</tr>
<tr>
<td>7664-39-3</td>
<td>Hydrofluoric acid</td>
<td>44 ppm</td>
</tr>
<tr>
<td>7757-79-1</td>
<td>potassium nitrate</td>
<td>600 mg/m³</td>
</tr>
<tr>
<td>471-34-1</td>
<td>calcium carbonate</td>
<td>1,300 mg/m³</td>
</tr>
</tbody>
</table>
### 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:

<table>
<thead>
<tr>
<th>Component</th>
<th>PEL Long-term value</th>
<th>REL Short-term value</th>
<th>TLV Short-term value</th>
</tr>
</thead>
<tbody>
<tr>
<td>7697-37-2 nitric acid</td>
<td>5 mg/m³, 2 ppm</td>
<td>10 mg/m³, 4 ppm</td>
<td>10 mg/m³, 4 ppm</td>
</tr>
<tr>
<td>7664-39-3 Hydrofluoric acid</td>
<td>3 ppm as F</td>
<td>2.5 mg/m³, 3 ppm</td>
<td>0.41 mg/m³, 0.5 ppm as F; Skin, BEI</td>
</tr>
</tbody>
</table>

### Ingredients with biological limit values:

<table>
<thead>
<tr>
<th>Component</th>
<th>BEI 3 mg/g creatinine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medium: urine</td>
<td>Time: prior to shift</td>
</tr>
<tr>
<td>Parameter: Fluorides (background, nonspecific)</td>
<td></td>
</tr>
<tr>
<td>10 mg/g creatinine</td>
<td>Medium: urine</td>
</tr>
<tr>
<td>Time: end of shift</td>
<td>Parameter: Fluorides (background, nonspecific)</td>
</tr>
</tbody>
</table>

## 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

### 9 Physical and chemical properties

<table>
<thead>
<tr>
<th>Information on basic physical and chemical properties</th>
<th>General Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>· Form: Liquid</td>
<td></td>
</tr>
<tr>
<td>· Color: colorless</td>
<td></td>
</tr>
<tr>
<td>· Odor: Characteristic</td>
<td></td>
</tr>
<tr>
<td>· Odor threshold: Not determined.</td>
<td></td>
</tr>
<tr>
<td>· pH-value: Not determined.</td>
<td></td>
</tr>
<tr>
<td>· Change in condition</td>
<td></td>
</tr>
<tr>
<td>· Melting point/Melting range: Undetermined.</td>
<td></td>
</tr>
<tr>
<td>· Boiling point/Boiling range: 100 °C (212 °F)</td>
<td></td>
</tr>
<tr>
<td>· Flash point: Not applicable.</td>
<td></td>
</tr>
<tr>
<td>· Flammability (solid, gaseous): Not applicable.</td>
<td></td>
</tr>
<tr>
<td>· Decomposition temperature: Not determined.</td>
<td></td>
</tr>
<tr>
<td>· Auto igniting: Product is not selfigniting.</td>
<td></td>
</tr>
<tr>
<td>· Danger of explosion: Product does not present an explosion hazard.</td>
<td></td>
</tr>
<tr>
<td>· Explosion limits:</td>
<td></td>
</tr>
<tr>
<td>· Lower: Not determined.</td>
<td></td>
</tr>
<tr>
<td>· Upper: Not determined.</td>
<td></td>
</tr>
<tr>
<td>· Vapor pressure at 20 °C (68 °F): 23 hPa (17.3 mm Hg)</td>
<td></td>
</tr>
<tr>
<td>· Density: Not determined.</td>
<td></td>
</tr>
<tr>
<td>· Relative density: Not determined.</td>
<td></td>
</tr>
<tr>
<td>· Vapor density: Not determined.</td>
<td></td>
</tr>
<tr>
<td>· Evaporation rate: Not determined.</td>
<td></td>
</tr>
</tbody>
</table>
49.4.3.4

· Solubility in / Miscibility with Water: Not miscible or difficult to mix.

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

· Viscosity:
  Dynamic: Not determined.
  Kinematic: Not determined.

· Solvent content:
  Water: 95.2 %
  VOC content: 0.00 %
  0.0 g/l / 0.00 lb/gal

· Solids content: 0.3 %

· 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.

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

  7664-39-3 Hydrofluoric acid

  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.

(Contd. on page 10)
Trade name: Quality Control Standard 26

- Carcinogenic categories
  - IARC (International Agency for Research on Cancer)
    - 543-81-7 beryllium acetate 1
    - 7439-92-1 lead 2B
    - 7440-02-0 nickel 2B
    - 7440-38-2 arsenic 1
    - 7440-43-9 cadmium (non-pyrophoric) 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 (non-pyrophoric) K
    - 7440-48-4 cobalt R
  - OSHA-Ca (Occupational Safety & Health Administration)
    - 7440-38-2 arsenic
    - 7440-43-9 cadmium (non-pyrophoric)

12 Ecological information

- Toxicity
  - Aquatic toxicity: No further relevant information available.
  - Persistence and degradability: No further relevant information available.
- Behavior in environmental systems:
  - Bioaccumulative potential: No further relevant information available.
  - Mobility in soil: No further relevant information available.
- Additional ecological information:
  - General notes:
    Water hazard class 1 (Self-assessment): slightly hazardous for water
    Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
    Must not reach bodies of water or drainage ditch undiluted or unneutralized.
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.
  - Other adverse effects: No further relevant information available.
13 Disposal considerations

- Waste treatment methods
  - Recommendation:
    Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packagings:
  - Recommendation: Disposal must be made according to official regulations.

14 Transport information

- UN-Number
  - DOT, ADR, IMDG, IATA UN3264

- UN proper shipping name
  - DOT Corrosive liquid, acidic, inorganic, n.o.s. (Nitric acid)
  - ADR 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID)
  - IMDG, IATA CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (NITRIC ACID)

- Transport hazard class(es)
  - DOT
    - Class 8 Corrosive substances
    - Label 8

- ADR, IMDG, IATA
  - Class 8 Corrosive substances
  - Label 8

- Packing group
  - DOT, ADR, IMDG, IATA III

- Environmental hazards: Not applicable.

- Special precautions for user
  - Warning: Corrosive substances
  - Danger code (Kemler): 80
  - EMS Number: F-A,S-B
  - Segregation groups Acids
  - Stowage Category A
  - Stowage Code SW2 Clear of living quarters.
Trade name: Quality Control Standard 26

· 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: 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
  · UN "Model Regulation":
    UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
    (NITRIC ACID), 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 Hydrofluoric acid
    · Section 313 (Specific toxic chemical listings):
      7697-37-2 nitric acid
      7664-39-3 Hydrofluoric acid
      7757-79-1 potassium nitrate
      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 (non-pyrophoric)
      7440-47-3 chromium
      7440-48-4 cobalt

(Contd. on page 13)
### Trade name: Quality Control Standard 26

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>ACTIVITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>7440-50-8</td>
<td>copper</td>
<td></td>
</tr>
<tr>
<td>7440-66-6</td>
<td>zinc</td>
<td></td>
</tr>
<tr>
<td>7782-49-2</td>
<td>selenium</td>
<td></td>
</tr>
<tr>
<td>7803-55-6</td>
<td>Ammonium Vanadate</td>
<td></td>
</tr>
</tbody>
</table>

#### TSCA (Toxic Substances Control Act):

- 7732-18-5 water, distilled, conductivity or of similar purity
- 7697-37-2 nitric acid
- 7664-39-3 Hydrofluoric acid
- 7757-79-1 potassium nitrate
- 471-34-1 calcium carbonate
- 497-19-8 sodium carbonate
- 513-77-9 barium carbonate
- 7429-90-3 aluminium
- 7439-89-6 iron
- 7439-92-1 lead
- 7439-95-4 magnesium
- 7439-98-7 molybdenum
- 7440-02-0 nickel
- 7440-22-4 silver
- 7440-28-0 thallium
- 7440-32-6 titanium
- 7440-36-0 antimony
- 7440-38-2 arsenic
- 7440-43-9 cadmium (non-pyrophoric)
- 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
- 10043-35-3 boric acid
- 16919-19-0 ammonium hexafluorosilicate

#### Hazardous Air Pollutants

- 7664-39-3 Hydrofluoric acid
- 7439-92-1 lead
- 7440-48-4 cobalt

#### Proposition 65

- Chemicals known to cause cancer:
  - 543-81-7 beryllium acetate
  - 7439-92-1 lead
### Trade name: Quality Control Standard 26

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

- **Chemicals known to cause reproductive toxicity for males:**
  - 7439-92-1 lead
  - 7440-43-9 cadmium (non-pyrophoric)

- **Chemicals known to cause developmental toxicity:**
  - 7439-92-1 lead
  - 7440-43-9 cadmium (non-pyrophoric)

#### Carcinogenic categories

##### EPA (Environmental Protection Agency)

<table>
<thead>
<tr>
<th>化学物质</th>
<th>危害等级</th>
</tr>
</thead>
<tbody>
<tr>
<td>barium carbonate</td>
<td>D, CBD(inh), NL(oral)</td>
</tr>
<tr>
<td>lead</td>
<td>B2</td>
</tr>
<tr>
<td>silver</td>
<td>D</td>
</tr>
<tr>
<td>arsenic</td>
<td>A</td>
</tr>
<tr>
<td>cadmium (non-pyrophoric)</td>
<td>B1</td>
</tr>
<tr>
<td>chromium</td>
<td>D</td>
</tr>
<tr>
<td>copper</td>
<td>D</td>
</tr>
<tr>
<td>zinc</td>
<td>D, I, II</td>
</tr>
<tr>
<td>selenium</td>
<td>D</td>
</tr>
<tr>
<td>boric acid</td>
<td>I (oral)</td>
</tr>
</tbody>
</table>

##### TLV (Threshold Limit Value established by ACGIH)

<table>
<thead>
<tr>
<th>化学物质</th>
<th>TLV级</th>
</tr>
</thead>
<tbody>
<tr>
<td>barium carbonate</td>
<td>A4</td>
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<tr>
<td>aluminium</td>
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<tr>
<td>lead</td>
<td>A3</td>
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<td>molybdenum</td>
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</tr>
<tr>
<td>nickel</td>
<td>A5</td>
</tr>
<tr>
<td>arsenic</td>
<td>A1</td>
</tr>
<tr>
<td>cadmium (non-pyrophoric)</td>
<td>A2</td>
</tr>
<tr>
<td>chromium</td>
<td>A4</td>
</tr>
<tr>
<td>cobalt</td>
<td>A3</td>
</tr>
<tr>
<td>boric acid</td>
<td>A4</td>
</tr>
</tbody>
</table>

##### 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 (non-pyrophoric)
Trade name: Quality Control Standard 26

- 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
- 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 mist.
  - 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 08/30/2019 /
- 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
Trade name: Quality Control Standard 26

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
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