1 Identification

· **Product identifier**
  · Trade name: ICP-MS-B
  · Article number: ICP-MS-B

· **Details of the supplier of the safety data sheet**
  · Manufacturer/Supplier:
    High-Purity Standards
    P.O. Box 41727
    Charleston, SC 29423
    Telephone: (843) 767-7900
    FAX: (843) 767-7906

· **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.

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

  GHS05

· **Signal word** Danger

· **Hazard-determining components of labeling:**
  nitric acid

· **Hazard statements**
  H290  May be corrosive to metals.
  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.
**Trade name: ICP-MS-B**

(Contd. of page 1)

**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).  
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.

- **Dangerous components:**
  - 7697-37-2 nitric acid  
    - 2.0%

- **Chemical identification of the substance/preparation**
  - 12060-58-1 samarium (III) oxide  
    - 0.002%
  - 1308-96-9 europium(III) oxide  
    - 0.001%
  - 12064-62-9 Gadolinium  
    - 0.001%
  - 12055-62-8 holmium oxide  
    - 0.001%
  - 1312-81-8 lanthanum oxide  
    - 0.001%
  - 12032-20-1 lutetium oxide  
    - 0.001%
  - 1313-97-9 neodymium oxide  
    - 0.001%
  - 12037-29-5 Praseodymium(III,IV) oxide  
    - 0.001%
  - 7440-52-0 erbium  
    - 0.001%
  - 12060-08-1 scandium oxide  
    - 0.001%
  - 7440-27-9 terbium  
    - 0.001%
  - 1314-20-1 thorium dioxide  
    - 0.001%

(Contd. on page 3)
Trade name: ICP-MS-B

<table>
<thead>
<tr>
<th>CTN</th>
<th>Description</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>12036-44-1</td>
<td>thulium oxide</td>
<td>0.001%</td>
</tr>
<tr>
<td>1314-37-0</td>
<td>ytterbium (III) oxide</td>
<td>0.001%</td>
</tr>
<tr>
<td>1314-36-9</td>
<td>yttrium oxide</td>
<td>0.001%</td>
</tr>
<tr>
<td>1308-87-8</td>
<td>Dysprosium</td>
<td>0.001%</td>
</tr>
<tr>
<td>1306-38-3</td>
<td>cerium dioxide</td>
<td>0.001%</td>
</tr>
<tr>
<td>7732-18-5</td>
<td>water, distilled, conductivity or of similar purity</td>
<td>97.982%</td>
</tr>
</tbody>
</table>

4 First-aid measures

- Description of first aid measures
  - General information: Immediately remove any clothing soiled by the product.
  - After inhalation: In case of unconsciousness place patient stably in side position for transportation.
  - After skin contact: Immediately wash with water and soap and rinse thoroughly.
  - After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
  - After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.

- Information for doctor:
  - Most important symptoms and effects, both acute and delayed: No further relevant information available.
  - Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture
  During heating or in case of fire poisonous gases are produced.
- Advice for firefighters
  - Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  - Mount respiratory protective device.
  - Wear protective equipment. Keep unprotected persons away.
  - Environmental precautions: No special measures required.
- 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.
<table>
<thead>
<tr>
<th>PAC-1:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7697-37-2</td>
<td>nitric acid 0.16 ppm</td>
</tr>
<tr>
<td>12060-58-1</td>
<td>samarium (III) oxide 15 mg/m³</td>
</tr>
<tr>
<td>1308-96-9</td>
<td>europium(III) oxide 15 mg/m³</td>
</tr>
<tr>
<td>12064-62-9</td>
<td>Gadolinium 15 mg/m³</td>
</tr>
<tr>
<td>12055-62-8</td>
<td>holmium oxide 30 mg/m³</td>
</tr>
<tr>
<td>1312-81-8</td>
<td>lanthanum oxide 4 mg/m³</td>
</tr>
<tr>
<td>12032-20-1</td>
<td>lutetium oxide 30 mg/m³</td>
</tr>
<tr>
<td>1313-97-9</td>
<td>neodymium oxide 15 mg/m³</td>
</tr>
<tr>
<td>12037-29-5</td>
<td>Praseodymium(III,IV) oxide 15 mg/m³</td>
</tr>
<tr>
<td>12060-08-1</td>
<td>scandium oxide 30 mg/m³</td>
</tr>
<tr>
<td>7440-27-9</td>
<td>terbium 1.2 mg/m³</td>
</tr>
<tr>
<td>1314-20-1</td>
<td>thorium dioxide 30 mg/m³</td>
</tr>
<tr>
<td>12036-44-1</td>
<td>thulium oxide 30 mg/m³</td>
</tr>
<tr>
<td>1314-37-0</td>
<td>ytterbium (III) oxide 30 mg/m³</td>
</tr>
<tr>
<td>1314-36-9</td>
<td>yttrium oxide 3.8 mg/m³</td>
</tr>
<tr>
<td>1308-87-8</td>
<td>Dysprosium 330 mg/m³</td>
</tr>
<tr>
<td>1306-38-3</td>
<td>cerium dioxide 3 mg/m³</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PAC-2:</th>
<th></th>
</tr>
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<tbody>
<tr>
<td>7697-37-2</td>
<td>nitric acid 24 ppm</td>
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<tr>
<td>12060-58-1</td>
<td>samarium (III) oxide 170 mg/m³</td>
</tr>
<tr>
<td>1308-96-9</td>
<td>europium(III) oxide 170 mg/m³</td>
</tr>
<tr>
<td>12064-62-9</td>
<td>Gadolinium 170 mg/m³</td>
</tr>
<tr>
<td>12055-62-8</td>
<td>holmium oxide 330 mg/m³</td>
</tr>
<tr>
<td>1312-81-8</td>
<td>lanthanum oxide 44 mg/m³</td>
</tr>
<tr>
<td>12032-20-1</td>
<td>lutetium oxide 330 mg/m³</td>
</tr>
<tr>
<td>1313-97-9</td>
<td>neodymium oxide 170 mg/m³</td>
</tr>
<tr>
<td>12037-29-5</td>
<td>Praseodymium(III,IV) oxide 170 mg/m³</td>
</tr>
<tr>
<td>12060-08-1</td>
<td>scandium oxide 330 mg/m³</td>
</tr>
<tr>
<td>7440-27-9</td>
<td>terbium 13 mg/m³</td>
</tr>
<tr>
<td>1314-20-1</td>
<td>thorium dioxide 330 mg/m³</td>
</tr>
<tr>
<td>12036-44-1</td>
<td>thulium oxide 330 mg/m³</td>
</tr>
<tr>
<td>1314-37-0</td>
<td>ytterbium (III) oxide 330 mg/m³</td>
</tr>
<tr>
<td>1314-36-9</td>
<td>yttrium oxide 43 mg/m³</td>
</tr>
<tr>
<td>1308-87-8</td>
<td>Dysprosium 170 mg/m³</td>
</tr>
<tr>
<td>1306-38-3</td>
<td>cerium dioxide 33 mg/m³</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PAC-3:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7697-37-2</td>
<td>nitric acid 92 ppm</td>
</tr>
<tr>
<td>12060-58-1</td>
<td>samarium (III) oxide 990 mg/m³</td>
</tr>
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</table>
Trade name: ICP-MS-B

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Substance</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1308-96-9</td>
<td>europium(III) oxide</td>
<td>990 mg/m³</td>
</tr>
<tr>
<td>12064-62-9</td>
<td>Gadolinium</td>
<td>990 mg/m³</td>
</tr>
<tr>
<td>12055-62-8</td>
<td>holmium oxide</td>
<td>2,000 mg/m³</td>
</tr>
<tr>
<td>1312-81-8</td>
<td>lanthanum oxide</td>
<td>270 mg/m³</td>
</tr>
<tr>
<td>12032-20-1</td>
<td>lutetium oxide</td>
<td>2,000 mg/m³</td>
</tr>
<tr>
<td>1313-97-9</td>
<td>neodymium oxide</td>
<td>990 mg/m³</td>
</tr>
<tr>
<td>12037-29-5</td>
<td>Praseodymium(III,IV) oxide</td>
<td>990 mg/m³</td>
</tr>
<tr>
<td>12060-08-1</td>
<td>scandium oxide</td>
<td>2,000 mg/m³</td>
</tr>
<tr>
<td>7440-27-9</td>
<td>terbium</td>
<td>79 mg/m³</td>
</tr>
<tr>
<td>1314-20-1</td>
<td>thorium dioxide</td>
<td>2,000 mg/m³</td>
</tr>
<tr>
<td>12036-44-1</td>
<td>thulium oxide</td>
<td>2,000 mg/m³</td>
</tr>
<tr>
<td>1314-37-0</td>
<td>ytterbium (III) oxide</td>
<td>2,000 mg/m³</td>
</tr>
<tr>
<td>1314-36-9</td>
<td>yttrium oxide</td>
<td>260 mg/m³</td>
</tr>
<tr>
<td>1308-87-8</td>
<td>Dysprosium</td>
<td>990 mg/m³</td>
</tr>
<tr>
<td>1306-38-3</td>
<td>cerium dioxide</td>
<td>200 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>Substance</th>
<th>PEL Long-term value</th>
<th>REL Short-term value</th>
</tr>
</thead>
<tbody>
<tr>
<td>7697-37-2</td>
<td>5 mg/m³, 2 ppm</td>
<td>10 mg/m³, 4 ppm</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

- Information on basic physical and chemical properties
  - General Information
    - Appearance:
      - Form: Liquid
      - Color: Colorless
      - Odor: Characteristic
      - Odor threshold: Not determined.
      - pH-value: Not determined.
    - Change in condition
      - Melting point/Melting range: Undetermined.
      - Boiling point/Boiling range: 100 °C (212 °F)
**Safety Data Sheet**

**Trade name:** ICP-MS-B

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Flash point:</strong></td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Flammability (solid, gaseous):</strong></td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Decomposition temperature:</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Auto igniting:</strong></td>
<td>Product is not selfigniting.</td>
</tr>
<tr>
<td><strong>Danger of explosion:</strong></td>
<td>Product does not present an explosion hazard.</td>
</tr>
<tr>
<td><strong>Explosion limits:</strong></td>
<td></td>
</tr>
<tr>
<td>Lower</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Upper</td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Vapor pressure at 20 °C (68 °F):</strong></td>
<td>23 hPa (17.3 mm Hg)</td>
</tr>
<tr>
<td><strong>Density:</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Vapor density</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Solubility in / Miscibility with Water:</strong></td>
<td>Not miscible or difficult to mix.</td>
</tr>
<tr>
<td><strong>Partition coefficient (n-octanol/water):</strong></td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Viscosity:</strong></td>
<td></td>
</tr>
<tr>
<td>Dynamic</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Kinematic</td>
<td>Not determined.</td>
</tr>
<tr>
<td><strong>Solvent content:</strong></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>98.0 %</td>
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<tr>
<td>VOC content</td>
<td>0.00 %</td>
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<tr>
<td>0.0 g/l / 0.00 lb/gal</td>
<td></td>
</tr>
<tr>
<td><strong>Solids content:</strong></td>
<td>0.0 %</td>
</tr>
<tr>
<td><strong>Other information</strong></td>
<td>No further relevant information available.</td>
</tr>
</tbody>
</table>

### 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:**
- **Primary irritant effect:**
- **on the skin:** Strong caustic effect on skin and mucous membranes.
47.1.4 · on the eye:
Strong caustic effect.
Strong irritant with the danger of severe eye injury.
· Sensitization: No sensitizing effects known.
· Additional toxicological information:
The product shows the following dangers according to internally approved calculation methods for preparations:
Corrosive
Irritant
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
· Carcinogenic categories
· IARC (International Agency for Research on Cancer)
  None of the ingredients is listed.
· NTP (National Toxicology Program)
  1314-20-1 thorium dioxide
  K
· OSHA-Ca (Occupational Safety & Health Administration)
  None of the ingredients is listed.

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:
      Generally not hazardous for water
      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.

- **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
Trade name: ICP-MS-B

- 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
  - Section 355 (extremely hazardous substances):
    - 7697-37-2 nitric acid

- Section 313 (Specific toxic chemical listings):
  - 7697-37-2 nitric acid
  - 1314-20-1 thorium dioxide

- TSCA (Toxic Substances Control Act):
  - All ingredients are listed.

- Proposition 65
  - Chemicals known to cause cancer:
    - 1314-20-1 thorium dioxide

- Chemicals known to cause reproductive toxicity for females:
  - None of the ingredients is listed.

- Chemicals known to cause reproductive toxicity for males:
  - None of the ingredients is listed.

- Chemicals known to cause developmental toxicity:
  - None of the ingredients is listed.

- Carcinogenic categories
  - EPA (Environmental Protection Agency) (Substances not listed)
    - 7697-37-2 nitric acid
    - 12060-58-1 samarium (III) oxide
    - 1308-96-9 europium(III) oxide
    - 12064-62-9 Gadolinium
    - 12055-62-8 holmium oxide
    - 1312-81-8 lanthanum oxide
    - 12032-20-1 lutetium oxide
    - 1313-97-9 neodymium oxide
    - 12037-29-5 Praseodymium(III,IV) oxide
    - 7440-52-0 erbium

(Contd. on page 11)
### Trade name: ICP-MS-B

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Product Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>12060-08-1</td>
<td>scandium oxide</td>
</tr>
<tr>
<td>7440-27-9</td>
<td>terbium</td>
</tr>
<tr>
<td>1314-20-1</td>
<td>thorium dioxide</td>
</tr>
<tr>
<td>12036-44-1</td>
<td>thulium oxide</td>
</tr>
<tr>
<td>1314-37-0</td>
<td>ytterbium (III) oxide</td>
</tr>
<tr>
<td>1314-36-9</td>
<td>yttrium oxide</td>
</tr>
<tr>
<td>1308-87-8</td>
<td>Dysprosium</td>
</tr>
<tr>
<td>7732-18-5</td>
<td>water, distilled, conductivity or of similar purity</td>
</tr>
</tbody>
</table>

- **TLV (Threshold Limit Value established by ACGIH)**
  None of the ingredients is listed.
- **NIOSH-Ca (National Institute for Occupational Safety and Health)**
  None of the ingredients is listed.
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**
  - GHS05

- **Signal word**
  Danger

- **Hazard-determining components of labeling:**
  nitric acid
- **Hazard statements**
  - H290 May be corrosive to metals.
  - 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).
  - 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: 09/28/2018 / -
- 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)
  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
  Met. Corr.1: Corrosive to metals – Category 1
  Skin Corr. 1A: Skin corrosion/irritation – Category 1A
  Eye Dam. 1: Serious eye damage/eye irritation – Category 1