1 Identification

· Product identifier
· Trade name: 6020-ICSA_SOL_A
· Article number: ICP-MS-ICS-3-A

· 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)
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 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]
    Health = 3
    Fire = 0
    Reactivity = 0
  · **HMIS-ratings (scale 0 - 4)**
    ![Health: 3, Fire: 0, Reactivity: 0]
    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.
Trade name: 6020-ICSA SOL A

5.0.3

• Dangerous components:
  7697-37-2 nitric acid 2.0%
  12015-14-4 [2H4] ammonium chloride 1.8%
  7664-39-3 Hydrofluoric acid 0.49%

• Chemical identification of the substance/preparation
  471-34-1 calcium carbonate 0.3%
  497-19-8 sodium carbonate 0.25%
  7439-89-6 iron 0.25%
  631-61-8 ammonium acetate 0.2%
  7757-79-1 potassium nitrate 0.1%
  75-75-2 methanesulphonic acid 0.1%
  7429-90-5 aluminium 0.1%
  7439-95-4 magnesium 0.1%
  7722-76-1 Ammonium dihydrogenphosphate 0.1%
  7440-32-6 titanium 0.002%
  7439-98-7 molybdenum 0.002%
  7732-18-5 water, distilled, conductivity or of similar purity 94.206%

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.
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>
<th>1.0 ppm</th>
<th>45 mg/m³</th>
<th>7.6 mg/m³</th>
<th>3.2 mg/m³</th>
<th>3.8 mg/m³</th>
<th>9 mg/m³</th>
<th>0.99 mg/m³</th>
<th>18 mg/m³</th>
<th>17 mg/m³</th>
<th>30 mg/m³</th>
<th>30 mg/m³</th>
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<tr>
<td>7664-39-3 Hydrofluoric acid</td>
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<td>497-19-8 sodium carbonate</td>
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<td>7439-89-6 iron</td>
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<td>7757-79-1 potassium nitrate</td>
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<td>7439-95-4 magnesium</td>
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<tr>
<td>7722-76-1 Ammonium dihydrogenphosphate</td>
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<td>7440-32-6 titanium</td>
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<tr>
<td>7439-98-7 molybdenum</td>
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<table>
<thead>
<tr>
<th>PAC-2:</th>
<th>24 ppm</th>
<th>24 ppm</th>
<th>210 mg/m³</th>
<th>83 mg/m³</th>
<th>35 mg/m³</th>
<th>42 mg/m³</th>
<th>100 mg/m³</th>
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<td>7697-37-2 nitric acid</td>
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<tr>
<td>7664-39-3 Hydrofluoric acid</td>
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<td>471-34-1 calcium carbonate</td>
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<td>497-19-8 sodium carbonate</td>
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<tr>
<td>7439-89-6 iron</td>
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<tr>
<td>631-61-8 ammonium acetate</td>
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<tr>
<td>7757-79-1 potassium nitrate</td>
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</tbody>
</table>

(Contd. on page 5)
75-75-2 methanesulphonic acid 11 mg/m³
7439-95-4 magnesium 200 mg/m³
7722-76-1 Ammonium dihydrogenphosphate 190 mg/m³
7440-32-6 titanium 330 mg/m³
7439-98-7 molybdenum 330 mg/m³

· PAC-3:

7697-37-2 nitric acid 92 ppm
7664-39-3 Hydrofluoric acid 44 ppm
471-34-1 calcium carbonate 1,300 mg/m³
497-19-8 sodium carbonate 500 mg/m³
7439-89-6 iron 150 mg/m³
631-61-8 ammonium acetate 250 mg/m³
7757-79-1 potassium nitrate 600 mg/m³
75-75-2 methanesulphonic acid 65 mg/m³
7439-95-4 magnesium 1,200 mg/m³
7722-76-1 Ammonium dihydrogenphosphate 1,100 mg/m³
7440-32-6 titanium 2,000 mg/m³
7439-98-7 molybdenum 2,000 mg/m³

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 6)
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 Long-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>
</tr>
<tr>
<td></td>
<td></td>
<td>5 mg/m³, 2 ppm</td>
</tr>
<tr>
<td>7664-39-3 Hydrofluoric acid</td>
<td>3 ppm</td>
<td>2.5 mg/m³, 3 ppm</td>
</tr>
<tr>
<td></td>
<td>as F</td>
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<td></td>
<td>15-min, as F</td>
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<tr>
<td></td>
<td>Ceiling limit value: 5 mg/m³, 6 ppm</td>
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<tr>
<td></td>
<td></td>
<td>0.41 mg/m³, 0.5 ppm</td>
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<tr>
<td></td>
<td>as F; Skin, BEI</td>
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</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></td>
<td>Medium: urine</td>
</tr>
<tr>
<td></td>
<td>Time: prior to shift</td>
</tr>
<tr>
<td></td>
<td>Parameter: Fluorides (background, nonspecific)</td>
</tr>
<tr>
<td></td>
<td>10 mg/g creatinine</td>
</tr>
<tr>
<td></td>
<td>Medium: urine</td>
</tr>
<tr>
<td></td>
<td>Time: end of shift</td>
</tr>
<tr>
<td></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

Information on basic physical and chemical properties

General Information

Appearance:

Form: Liquid
Color: Yellow
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)

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.
Safety Data Sheet

acc. to OSHA HCS

Printing date 12/12/2019
Reviewed on 11/19/2019

Trade name: 6020-ICSA SOL A

(Contd. of page 7)

- **Explosion limits:**
  - Lower: Not determined.
  - Upper: Not determined.

- **Vapor pressure at 20 °C (68 °F):** 23 hPa (17.3 mm Hg)

- **Density at 20 °C (68 °F):** 1.04763 g/cm³ (8.74247 lbs/gal)

- **Bulk density:** ~1,006~1,021 kg/m³
  - Relative density: Not determined.
  - Vapor density: Not determined.
  - Evaporation rate: Not determined.

- **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: 94.2 %
  - VOC content: 0.00 %
  - 0.0 g/l / 0.00 lb/gal

- **Solids content:** 1.5 %

- **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)

(Contd. on 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**
  · IARC (International Agency for Research on Cancer) None of the ingredients is listed.
  · NTP (National Toxicology Program) None of the ingredients is listed.
  · 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: 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.
Safety Data Sheet
acc. to OSHA HCS

Printing date 12/12/2019
Reviewed on 11/19/2019

Trade name: 6020-ICSA SOL A

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
  - **DOT:** 80
  - **EMS Number:** F-A,S-B
  - **Segregation groups**
    - **Acids**
## 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
  - 7429-90-5 aluminium

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

- 7697-37-2 nitric acid  ACTIVE
- 7664-39-3 Hydrofluoric acid  ACTIVE
- 471-34-1 calcium carbonate  ACTIVE
- 497-19-8 sodium carbonate  ACTIVE
- 7439-89-6 iron  ACTIVE
### Trade name: 6020-ICSA SOL A

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>631-61-8</td>
<td>ammonium acetate</td>
<td>ACTIVE</td>
</tr>
<tr>
<td>7737-79-1</td>
<td>potassium nitrate</td>
<td>ACTIVE</td>
</tr>
<tr>
<td>75-75-2</td>
<td>methanesulphonic acid</td>
<td>ACTIVE</td>
</tr>
<tr>
<td>7429-90-5</td>
<td>aluminium</td>
<td>ACTIVE</td>
</tr>
<tr>
<td>7439-95-4</td>
<td>magnesium</td>
<td>ACTIVE</td>
</tr>
<tr>
<td>7722-76-1</td>
<td>Ammonium dihydrogenphosphate</td>
<td>ACTIVE</td>
</tr>
<tr>
<td>7440-32-6</td>
<td>titanium</td>
<td>ACTIVE</td>
</tr>
<tr>
<td>7439-98-7</td>
<td>molybdenum</td>
<td>ACTIVE</td>
</tr>
<tr>
<td>7732-18-5</td>
<td>water, distilled, conductivity or of similar purity</td>
<td>ACTIVE</td>
</tr>
</tbody>
</table>

#### Hazardous Air Pollutants
- 7664-39-3 Hydrofluoric acid

#### Proposition 65
- **Chemicals known to cause cancer:**
  - None of the ingredients is listed.
- **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)**
  - 631-61-8 ammonium acetate: D

- **TLV (Threshold Limit Value established by ACGIH)**
  - 7429-90-5 aluminium: A4
  - 7439-98-7 molybdenum: A3

#### 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
- GHS07

**Signal word** Danger

**Hazard-determining components of labeling:**
- nitric acid
Safety Data Sheet
acc. to OSHA HCS

Trade name: 6020-ICSA SOL A

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 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.

· 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 12/12/2019 / -
· 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
  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

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Trade name: 6020-ICSA SOL A

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

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