1 Identification

- Product identifier
- Trade name: Custom Standard
- Part number: ICUS-5020
- Application of the substance / the mixture Laboratory chemicals
- Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
  ULTRA Scientific, Inc.
  250 Smith Street
  North Kingstown, RI  02852
  USA
- Information department:
  Telephone: (401) 294-9400
  Fax: (401) 295-2300
  E-mail: regulatory@ultrasci.com
- Emergency telephone number:
  US: (800) 424-9300
  Outside US: (703) 527-3887

2 Hazard(s) identification

- Classification of the substance or mixture
  GHS05 Corrosion
  Eye Dam. 1  H318  Causes serious eye damage.

  GHS07
  Skin Irrit. 2  H315  Causes skin irritation.

- 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
  Causes skin irritation.
  Causes serious eye damage.

- Precautionary statements
  Wash thoroughly after handling.
  Wear protective gloves / eye protection / face protection.
  If on skin: Wash with plenty of water.
Trade name: Custom Standard

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). If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

- 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 4.95%
  - 87-69-4 (+)-tartaric acid 2.0%

4 First-aid measures

- Description of first aid measures
  - 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: If symptoms persist consult 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 No further relevant information available.
6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  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.

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:

<table>
<thead>
<tr>
<th>Compound Description</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>nitric acid</td>
<td>0.16 ppm</td>
</tr>
<tr>
<td>(+)-tartaric acid</td>
<td>1.6 mg/m³</td>
</tr>
<tr>
<td>calcium carbonate</td>
<td>45 mg/m³</td>
</tr>
<tr>
<td>magnesium nitrate hexahydrate</td>
<td>16 mg/m³</td>
</tr>
<tr>
<td>potassium nitrate</td>
<td>9 mg/m³</td>
</tr>
<tr>
<td>sodium nitrate, containing in the dry state more than 16.3 per cent by weight of nitrogen</td>
<td>4.1 mg/m³</td>
</tr>
<tr>
<td>hydrogen fluoride</td>
<td>1.0 ppm</td>
</tr>
<tr>
<td>boric acid</td>
<td>6 mg/m³</td>
</tr>
<tr>
<td>ammonium dihydrogenorthophosphate</td>
<td>17 mg/m³</td>
</tr>
<tr>
<td>strontium nitrate</td>
<td>5.7 mg/m³</td>
</tr>
<tr>
<td>iron (III) nitrate nonahydrate</td>
<td>22 mg/m³</td>
</tr>
<tr>
<td>aluminium nitrate</td>
<td>83 mg/m³</td>
</tr>
<tr>
<td>manganese dinitrate</td>
<td>9.8 mg/m³</td>
</tr>
<tr>
<td>molybdenum trioxide</td>
<td>2.3 mg/m³</td>
</tr>
<tr>
<td>silver nitrate</td>
<td>0.047 mg/m³</td>
</tr>
<tr>
<td>barium nitrate</td>
<td>2.9 mg/m³</td>
</tr>
<tr>
<td>thallium nitrate</td>
<td>0.078 mg/m³</td>
</tr>
<tr>
<td>zinc(II) nitrate hexahydrate</td>
<td>27 mg/m³</td>
</tr>
<tr>
<td>cobalt (II) nitrate hexahydrate</td>
<td>0.3 mg/m³</td>
</tr>
<tr>
<td>Nitric acid, nickel(2+) salt, hexahydrate</td>
<td>1.5 mg/m³</td>
</tr>
<tr>
<td>diarsenic trioxide</td>
<td>0.27 mg/m³</td>
</tr>
<tr>
<td>ammonium trioxovanadate</td>
<td>0.01 mg/m³</td>
</tr>
<tr>
<td>selenium dioxide</td>
<td>0.84 mg/m³</td>
</tr>
<tr>
<td>Nitric acid, cadmium salt, tetrahydrate</td>
<td>0.27 mg/m³</td>
</tr>
<tr>
<td>antimony</td>
<td>1.5 mg/m³</td>
</tr>
<tr>
<td>lead dinitrate</td>
<td>0.24 mg/m³</td>
</tr>
</tbody>
</table>

(Contd. of page 2)
### PAC-2:

<table>
<thead>
<tr>
<th>Safety Data Sheet acc. to OSHA HCS</th>
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</thead>
<tbody>
<tr>
<td>Printing date 12/01/2017</td>
</tr>
<tr>
<td>Version Number 1</td>
</tr>
<tr>
<td>Reviewed on 12/01/2017</td>
</tr>
</tbody>
</table>

#### Trade name: Custom Standard

- **PAC-2:**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>7697-37-2 nitric acid</td>
<td>24 ppm</td>
</tr>
<tr>
<td>87-69-4 (+)-tartaric acid</td>
<td>17 mg/m³</td>
</tr>
<tr>
<td>471-34-1 calcium carbonate</td>
<td>210 mg/m³</td>
</tr>
<tr>
<td>13446-18-9 magnesium nitrate hexahydrate</td>
<td>180 mg/m³</td>
</tr>
<tr>
<td>7757-79-1 potassium nitrate</td>
<td>100 mg/m³</td>
</tr>
<tr>
<td>7631-99-4 sodium nitrate, containing in the dry state more than 16.3 per cent by weight of nitrogen</td>
<td>45 mg/m³</td>
</tr>
<tr>
<td>7664-39-3 hydrogen fluoride</td>
<td>24 ppm</td>
</tr>
<tr>
<td>10043-35-3 boric acid</td>
<td>23 mg/m³</td>
</tr>
<tr>
<td>7722-76-1 ammonium dihydrogenorthophosphate</td>
<td>190 mg/m³</td>
</tr>
<tr>
<td>10042-76-9 strontium nitrate</td>
<td>62 mg/m³</td>
</tr>
<tr>
<td>7782-61-8 iron (III) nitrate nonahydrate</td>
<td>110 mg/m³</td>
</tr>
<tr>
<td>7784-27-2 aluminium nitrate</td>
<td>920 mg/m³</td>
</tr>
<tr>
<td>10377-66-9 manganese dinitrate</td>
<td>16 mg/m³</td>
</tr>
<tr>
<td>1313-27-5 molybdenum trioxide</td>
<td>43 mg/m³</td>
</tr>
<tr>
<td>7761-88-8 silver nitrate</td>
<td>0.9 mg/m³</td>
</tr>
<tr>
<td>10022-31-8 barium nitrate</td>
<td>350 mg/m³</td>
</tr>
<tr>
<td>10102-45-1 thallium nitrate</td>
<td>4.3 mg/m³</td>
</tr>
<tr>
<td>10196-18-6 zinc(II) nitrate hexahydrate</td>
<td>300 mg/m³</td>
</tr>
<tr>
<td>10026-22-9 cobalt (II) nitrate hexahydrate</td>
<td>23 mg/m³</td>
</tr>
<tr>
<td>13478-00-7 Nitric acid, nickel(2+) salt, hexahydrate</td>
<td>53 mg/m³</td>
</tr>
<tr>
<td>1327-53-3 diarsenic trioxide</td>
<td>3.0 mg/m³</td>
</tr>
<tr>
<td>7803-55-6 ammonium trioxovanadate</td>
<td>0.11 mg/m³</td>
</tr>
<tr>
<td>7446-08-4 selenium dioxide</td>
<td>1.6 mg/m³</td>
</tr>
<tr>
<td>10022-68-1 Nitric acid, cadmium salt, tetrahydrate</td>
<td>2.1 mg/m³</td>
</tr>
<tr>
<td>7440-36-0 antimony</td>
<td>13 mg/m³</td>
</tr>
<tr>
<td>10099-74-8 lead dinitrate</td>
<td>180 mg/m³</td>
</tr>
</tbody>
</table>

#### PAC-3:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>7697-37-2 nitric acid</td>
<td>92 ppm</td>
</tr>
<tr>
<td>87-69-4 (+)-tartaric acid</td>
<td>100 mg/m³</td>
</tr>
<tr>
<td>471-34-1 calcium carbonate</td>
<td>1,300 mg/m³</td>
</tr>
<tr>
<td>13446-18-9 magnesium nitrate hexahydrate</td>
<td>1,100 mg/m³</td>
</tr>
<tr>
<td>7757-79-1 potassium nitrate</td>
<td>600 mg/m³</td>
</tr>
<tr>
<td>7631-99-4 sodium nitrate, containing in the dry state more than 16.3 per cent by weight of nitrogen</td>
<td>270 mg/m³</td>
</tr>
<tr>
<td>7664-39-3 hydrogen fluoride</td>
<td>44 ppm</td>
</tr>
<tr>
<td>10043-35-3 boric acid</td>
<td>830 mg/m³</td>
</tr>
<tr>
<td>7722-76-1 ammonium dihydrogenorthophosphate</td>
<td>1,100 mg/m³</td>
</tr>
<tr>
<td>10042-76-9 strontium nitrate</td>
<td>370 mg/m³</td>
</tr>
<tr>
<td>7782-61-8 iron (III) nitrate nonahydrate</td>
<td>640 mg/m³</td>
</tr>
<tr>
<td>7784-27-2 aluminium nitrate</td>
<td>5,500 mg/m³</td>
</tr>
<tr>
<td>10377-66-9 manganese dinitrate</td>
<td>96 mg/m³</td>
</tr>
<tr>
<td>1313-27-5 molybdenum trioxide</td>
<td>260 mg/m³</td>
</tr>
</tbody>
</table>
7 Handling and storage

- Handling:
  - Precautions for safe handling: No special precautions are necessary if used correctly.
  - Information about protection against explosions and fires: No special measures required.

- Conditions for safe storage, including any incompatibilities
- Storage:
  - Requirements to be met by storeroms 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:
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
At this time, the remaining constituent has no known exposure limits.

7697-37-2 nitric acid

<table>
<thead>
<tr>
<th>Component</th>
<th>PEL (Long-term)</th>
<th>REL (Short-term)</th>
<th>TLV (Short-term)</th>
</tr>
</thead>
<tbody>
<tr>
<td>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>
</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 and skin.
- **Breathing equipment:** Not required.
- **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: Fluid
    - Color: According to product specification
  - Odor:
    - Odor threshold: Characteristic
    - Not determined.
  - **pH-value:**
    - Not determined.

- **Change in condition**
  - Melting point/Melting range: Undetermined.
  - Melting point/Melting range: 100 °C (212 °F)
  - Boiling point/Boiling range:
    - Boiling point: 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:**
  - Lower:
    - Not determined.
  - Upper:
    - Not determined.
Trade name: Custom Standard

- **Vapor pressure at 20 °C (68 °F):** 23 hPa (17.3 mm Hg)
- **Density:** Not determined.
- **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:** 92.1 %
  - **VOC content:** 0.00 %
    - 0.0 g/l / 0.00 lb/gl
- **Solids content:** 2.8 %
- **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:**
      - **ATE (Acute Toxicity Estimate)**
        - Oral LD50 1,276,000 mg/kg (rat)
        - Dermal LD50 5,000 mg/kg
        - Inhalative LC50/4 h 365 mg/L
      - **7697-37-2 nitric acid**
        - Inhalative LC50/4 h 67 mg/L (rat)
      - **7664-39-3 hydrogen fluoride**
        - Oral LD50 1,276 mg/kg (rat)
  - **Primary irritant effect:**
    - **on the skin:** Irritant to skin and mucous membranes.
    - **on the eye:** 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:
  Irritant

· **Carcinogenic categories**

<table>
<thead>
<tr>
<th><strong>IARC (International Agency for Research on Cancer)</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>10026-22-9 cobalt (II) nitrate hexahydrate</td>
<td>2B</td>
</tr>
<tr>
<td>13478-00-7 Nitric acid, nickel(2+) salt, hexahydrate</td>
<td>1</td>
</tr>
<tr>
<td>1327-53-3 diarsenic trioxide</td>
<td>1</td>
</tr>
<tr>
<td>7446-08-4 selenium dioxide</td>
<td>3</td>
</tr>
<tr>
<td>10022-68-1 Nitric acid, cadmium salt, tetrahydrate</td>
<td>1</td>
</tr>
<tr>
<td>543-81-7 acetic acid beryllium salt</td>
<td>1</td>
</tr>
<tr>
<td>10099-74-8 lead dinitrate</td>
<td>2A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>NTP (National Toxicology Program)</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>13478-00-7 Nitric acid, nickel(2+) salt, hexahydrate</td>
<td>K</td>
</tr>
<tr>
<td>1327-53-3 diarsenic trioxide</td>
<td>K</td>
</tr>
<tr>
<td>10022-68-1 Nitric acid, cadmium salt, tetrahydrate</td>
<td>K</td>
</tr>
<tr>
<td>543-81-7 acetic acid beryllium salt</td>
<td>K</td>
</tr>
<tr>
<td>10099-74-8 lead dinitrate</td>
<td>R</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>OSHA-Ca (Occupational Safety &amp; Health Administration)</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>None of the ingredients is listed.</td>
<td></td>
</tr>
</tbody>
</table>

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 2 (Self-assessment): hazardous for water
  Do not allow product to reach ground water, water course or sewage system.
  Must not reach bodies of water or drainage ditch undiluted or unneutralized.
  Danger to drinking water if even small quantities leak into the ground.
· **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.
Trade name: Custom Standard

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

### 14 Transport information

| · UN-Number | UN3264 |
| · DOT, IMDG, IATA | UN3264 |

- UN proper shipping name
  - DOT
  - IMDG, IATA

- DOT proper shipping name
  - DOT
  - IMDG, IATA

- DOT Hazard class(es)
  - DOT

- IMDG, IATA

- IMDG, IATA Hazard class(es)
  - IMDG, IATA

- Packing group
  - DOT, IMDG, IATA
  - IMDG, IATA

- 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
  - B

- 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: 1 L
    - On cargo aircraft only: 30 L
  - IMDG
  - Limited quantities (LQ)
    - 1 L
Trade name: Custom Standard

- **Excepted quantities (EQ)**
  - Code: E2
  - Maximum net quantity per inner packaging: 30 ml
  - Maximum net quantity per outer packaging: 500 ml

- **UN "Model Regulation":**
  - UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
    - (NITRIC ACID), 8, II

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**
  - **Section 355 (extremely hazardous substances):**
    - 7697-37-2 nitric acid
    - 7664-39-3 hydrogen fluoride
    - 1327-53-3 diarsenic trioxide

  - **Section 313 (Specific toxic chemical listings):**
    - 7697-37-2 nitric acid
    - 13466-18-9 magnesium nitrate hexahydrate
    - 7757-79-1 potassium nitrate
    - 7664-39-3 hydrogen fluoride
    - 10042-76-9 strontium nitrate
    - 7782-61-8 iron (III) nitrate nonahydrate
    - 7784-27-2 aluminium nitrate
    - 10377-66-9 manganese dinitrate
    - 10031-43-3 cupric nitrate
    - 1313-27-5 molybdenum trioxide
    - 7761-88-8 silver nitrate
    - 10022-31-8 barium nitrate
    - 10102-45-1 thallium nitrate
    - 10196-18-6 zinc(II) nitrate hexahydrate
    - 10026-22-9 cobalt (II) nitrate hexahydrate
    - 13478-00-7 Nitric acid, nickel(2+) salt, hexahydrate
    - 1327-53-3 diarsenic trioxide
    - 7803-55-6 ammonium trioxovanadate
    - 7789-02-8 chromium (III) nitrate nonahydrate
    - 7446-08-4 selenium dioxide
    - 10022-68-1 Nitric acid, cadmium salt, tetrahydrate
    - 543-81-7 acetic acid beryllium salt
    - 7440-36-0 antimony
    - 10099-74-8 lead dinitrate

  - **TSCA (Toxic Substances Control Act):**
    - 7697-37-2 nitric acid
    - 87-69-4 (+)-tartaric acid
    - 471-34-1 calcium carbonate
Trade name: Custom Standard

<table>
<thead>
<tr>
<th>Material ID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>7757-79-1</td>
<td>potassium nitrate</td>
</tr>
<tr>
<td>7631-99-4</td>
<td>sodium nitrate, containing in the dry state more than 16.3 per cent by weight of nitrogen</td>
</tr>
<tr>
<td>7664-39-3</td>
<td>hydrogen fluoride</td>
</tr>
<tr>
<td>10043-35-3</td>
<td>boric acid</td>
</tr>
<tr>
<td>7722-76-1</td>
<td>ammonium dihydrogenorthophosphate</td>
</tr>
<tr>
<td>10042-76-9</td>
<td>strontium nitrate</td>
</tr>
<tr>
<td>10377-66-9</td>
<td>manganese dinitrate</td>
</tr>
<tr>
<td>1313-27-5</td>
<td>molybdenum trioxide</td>
</tr>
<tr>
<td>7761-88-8</td>
<td>silver nitrate</td>
</tr>
<tr>
<td>10022-31-8</td>
<td>barium nitrate</td>
</tr>
<tr>
<td>10102-45-1</td>
<td>thallium nitrate</td>
</tr>
<tr>
<td>1327-53-3</td>
<td>diarsenic trioxide</td>
</tr>
<tr>
<td>7803-55-6</td>
<td>ammonium trioxovanadate</td>
</tr>
<tr>
<td>7446-08-4</td>
<td>selenium dioxide</td>
</tr>
<tr>
<td>7440-36-0</td>
<td>antimony</td>
</tr>
<tr>
<td>10099-74-8</td>
<td>lead dinitrate</td>
</tr>
<tr>
<td>7732-18-5</td>
<td>water</td>
</tr>
</tbody>
</table>

- TSCA new (21st Century Act) (Substances not listed)
- Proposition 65
  - Chemicals known to cause cancer:
    - 13478-00-7 Nitric acid, nickel(2+) salt, hexahydrate
    - 1327-53-3 diarsenic trioxide
    - 10022-68-1 Nitric acid, cadmium salt, tetrahydrate
    - 543-81-7 acetic acid beryllium salt
    - 10099-74-8 lead dinitrate
  - 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:
    1327-53-3 diarsenic trioxide

- Carcinogenic categories
  - EPA (Environmental Protection Agency)
    - 10043-35-3 boric acid I (oral)
    - 10377-66-9 manganese dinitrate D
    - 10022-31-8 barium nitrate D, CBD(inh), NL(oral)
    - 10102-45-1 thallium nitrate II
    - 1327-53-3 diarsenic trioxide A
    - 7446-08-4 selenium dioxide D
    - 10099-74-8 lead dinitrate B2

- TLV (Threshold Limit Value established by ACGIH)
  - 10043-35-3 boric acid A4
  - 10022-31-8 barium nitrate A4

(Contd. on page 12)
Trade name: Custom Standard

1327-53-3 diarsenic trioxide A1
10099-74-8 lead dinitrate 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

  - Signal word
    Danger

  - Hazard-determining components of labeling:
    nitric acid

  - Hazard statements
    Causes skin irritation.
    Causes serious eye damage.

  - Precautionary statements
    Wash thoroughly after handling.
    Wear protective gloves / eye protection / face protection.
    If on skin: Wash with plenty of water.
    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).
    If skin irritation occurs: Get medical advice/attention.
    Take off contaminated clothing and wash it before reuse.

  - 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.

- Date of preparation / last revision 12/01/2017 / -
- Abbreviations and acronyms:
  ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  IMDG: International Maritime Code for Dangerous Goods
  DOT: US Department of Transportation
  IATA: International Air Transport Association
  ACGIH: American Conference of Governmental Industrial Hygienists
  EINECS: European Inventory of Existing Commercial Chemical Substances
  ELINCS: European List of Notified Chemical Substances
  CAS: Chemical Abstracts Service (division of the American Chemical Society)
  NFPA: National Fire Protection Association (USA)
  HMIS: Hazardous Materials Identification System (USA)
  VOC: Volatile Organic Compounds (USA, EU)
  LC50: Lethal concentration, 50 percent
  LD50: Lethal dose, 50 percent
  PBT: Persistent, Bioaccumulative and Toxic
  vPvB: very Persistent and very Bioaccumulative
  NIOSH: National Institute for Occupational Safety
  OSHA: Occupational Safety & Health
  TLV: Threshold Limit Value
Trade name: Custom Standard

PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1