Classified According to OSHA Hazard Communication Standard (HCS)

### **SECTION 1: Identification**

#### 1.1. Product Identifier

Trade Name or Designation: Mixed ICP Standard, Trace

Product Number: PMX005N
Other Identifying Product Numbers: PMX005N-500

#### 1.2. Recommended Use and Restrictions on Use

General Laboratory Reagent

#### 1.3. Details of the Supplier of the Safety Data Sheet

Company: Ricca Chemical Company Address: 448 West Fork Drive

Arlington, TX 76012 USA

**Telephone:** 888-467-4222

#### 1.4. Emergency Telephone Number (24 hours)

CHEMTREC (USA) 800-424-9300 CHEMTREC (International) 1+ 703-527-3887

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### **SECTION 2: Hazard(s) Identification**

#### 2.1. Classification of the Substance or Mixture

For the full text of the Hazard and Precautionary Statements listed below, see Section 16.

|  |            | Hazard     |  |
|--|------------|------------|--|
| Hazard Class                                   | Category   | Statements | Precautionary Statements:                |
| Acute Toxicity - Inhalation                    | Category 2 | H330       | P260, P271, P285, P304+P340, P310, P320, |
|  |            |            | P403+P233, P405, P501                    |
| Skin Corrosion / Irritation                    | Category 1 | H314       | P260, P264, P280, P301+P330+P331,        |
|  |            |            | P303+P361+P353, P363, P304+P340, P310,   |
|  |            |            | P321, P305+P351+P338, P405, P501         |
| Eye Damage / Irritation                        | Category 1 | H318       | P280, P305+P351+P338, P310               |
| Skin Sensitizer                                | Category 1 | H317       | P261, P272, P280, P302+P352, P332+P313,  |
|  |            |            | P321, P363, P501                         |
| Corrosive to Metals                            | Category 1 | H290       | P234, P390, P406                         |
| Hazardous to the Aquatic Environment (Acute)   | Category 2 | H401       | P273, P501                               |
| Hazardous to the Aquatic Environment (Chronic) | Category 2 | H411       | P273, P391, P501                         |

#### 2.2. GHS Label Elements

#### Pictograms:









Signal Word: Danger

#### **Hazard Statements:**

| <b>Hazard Number</b> | Hazard Statement                                 |
|----------------------|--|
| H290                 | May be corrosive to metals.                      |
| H314                 | Causes severe skin burns and eye damage.         |
| H317                 | May cause an allergic skin reaction.             |
| H318                 | Causes serious eye damage.                       |
| H330                 | Fatal if inhaled.                                |
| H401                 | Toxic to aquatic life.                           |
| H411                 | Toxic to aquatic life with long lasting effects. |

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#### **Precautionary Statements:**

| Precautionary Number | Precautionary Statement  |
|----------------------|--|
| P234                 | Keep only in original container.   |
| P260                 | Do not breathe fumes, mist, vapors, or spray.  |
| P261                 | Avoid breathing fumes, mist, vapors, or spray.   |
| P264                 | Wash arms, hands and face thoroughly after handling.   |
| P271                 | Use only outdoors or in a well-ventilated area.  |
| P272                 | Contaminated work clothing must not be allowed out of the workplace.                               |
| P273                 | Avoid release to the environment.  |
| P280                 | Wear protective gloves and eye protection.   |
| P285                 | In case of inadequate ventilation wear respiratory protection.                                     |
| P301+P330+P331       | IF SWALLOWED: rinse mouth. Do NOT induce vomiting.   |
| P302+P352            | IF ON SKIN: Wash with plenty of soap and water.  |
| P303+P361+P353       | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.       |
| P304+P340            | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                         |
| P305+P351+P338       | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and |
|                      | easy to do. Continue rinsing.  |
| P310                 | Immediately call a POISON CENTER or physician.   |
| P320                 | Specific treatment is urgent (Wash areas of contact with water.).                                  |
| P321                 | Specific treatment (Wash areas of contact with water.).  |
| P332+P313            | If skin irritation occurs: Get medical attention.  |
| P363                 | Wash contaminated clothing before reuse.   |
| P390                 | Absorb spillage to prevent material damage.  |
| P391                 | Collect spillage.  |
| P403+P233            | Store in a well-ventilated place. Keep container tightly closed.                                   |
| P405                 | Store locked up.   |
| P406                 | Store in corrosive resistant container with a resistant inner liner.                               |
| P501                 | Dispose of contents in accordance with local, state, federal and international regulations.        |

### 2.4. Hazards not Otherwise Classified or Covered by GHS

Data not available.

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### **SECTION 3: Composition / Information on Ingredients**

### 3.1. Components of Substance or Mixture

| Chemical Name                    | Formula                  | Molecular Weight | <b>CAS Number</b> | Weight% |
|----------------------------------|--------------------------|------------------|-------------------|---------|
| Water                            | H₂O                      | 18.01 g/mol      | 7732-18-5         | 91.25   |
| Nitric Acid                      | HNO <sub>3</sub>         | 63.01 g/mol      | 7697-37-2         | 8.45    |
| Chromium Nitrate Nonahydrate     | $Cr(NO_3)_3 \cdot 9H_2O$ | 238.01 g/mol     | 7789-02-8         | 0.17    |
| Selenium                         | Se                       | 78.95 g/mol      | 7782-49-2         | < 0.1   |
| Ammonium Hexafluorosilicate (IV) | $(NH_4)_2SiF_6$          | 178.15 g/mol     | 16919-19-0        | < 0.1   |
| Molybdenum                       | Мо                       | 95.95 g/mol      | 7439-98-7         | < 0.1   |
| Boric Acid                       | H₃BO₃                    | 61.83 g/mol      | 10043-35-3        | < 0.1   |
| Hydrofluoric Acid                | HF                       | 20.00 g/mol      | 7664-39-3         | < 0.1   |
| Vanadium                         | V                        | 50.94 g/mol      | 7440-62-2         | < 0.1   |
| Tin                              | Sn                       | 118.71 g/mol     | 7440-31-5         | < 0.1   |
| Nickel                           | Ni                       | 58.69 g/mol      | 7440-02-0         | < 0.1   |
| Ammonium Hydroxide               | NH₄OH                    | 35.04 g/mol      | 1336-21-6         | < 0.1   |

#### **SECTION 4: First-Aid Measures**

#### 4.1. General First Aid Information

Eye Contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing. May cause irritation, redness, pain, and tearing.

**Inhalation:** IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Skin Contact: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. May cause irritation, redness

and pain. Contact will discolor skin yellow-brown depending on exposure which will wear off after a period of time.

Ingestion: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Dilute with water or milk. Do not induce vomiting. Call a

physician if necessary.

#### 4.2. Most Important Symptoms and Effects, Acute and Delayed

Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. Fatal if inhaled. Corrosive Liquid. Contains a trace amounts of a known carcinogen. May be fatal if swallowed. Avoid contact with skin, eyes, and clothing. Avoid breathing vapor. If swallowed, do not induce vomiting. Dilute with water and call a physician. Wash areas of contact with plenty of water. EYE CONTACT: May cause irritation, redness, pain, and tearing. SKIN CONTACT: May cause irritation, redness and pain. Contact will discolor skin yellow-brown depending on exposure which will wear off after a period of time.

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#### 4.3. Medical Attention or Special Treatment Needed

Immediately call a POISON CENTER or physician. Specific treatment is urgent (Wash areas of contact with water.). Specific treatment (Wash areas of contact with water.). Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops. Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops. Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

### **SECTION 5: Fire-Fighting Measures**

#### 5.1. Extinguishing Media

Use water or water spray.

#### 5.2. Specific Hazards Arising from the Substance or Mixture

Not combustible, but substance is an oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. Can react with metals to release flammable hydrogen gas. May react explosively with combustible organic or readily oxidizable materials such as: alcohols, turpentine, charcoal, organic refuse, metal powder, hydrogen sulfide, etc.

### 5.3. Special Protective Equipment for Firefighters

Use protective clothing and breathing equipment appropriate for the surrounding fire.

#### **SECTION 6: Accidental Release Measures**

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection.

#### 6.2. Cleanup and Containment Methods and Materials

Do not flush to sewer. Absorb with suitable material. Containerize for disposal with a hazardous waste disposal facility. Dispose of in accordance with local regulations.

### **SECTION 7: Handling and Storage**

### 7.1. Precautions for Safe Handling and Storage Conditions

Store in corrosive resistant container with a resistant inner liner. As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.

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### **SECTION 8: Exposure Controls / Personal Protection**

#### **8.1 Control Parameters**

| Chemical Name                             | Limit Type | Country | Exposure Limit  | Information Source   |
|---|------------|---------|---|--|
| Boric Acid (10043-35-3)                   | TLV-TWA    | USA     | 2 mg/m³ TWA (inhalable particulate matter, listed under Borate compounds, inorganic)              | ACGIH - Threshold Limit Values - Time<br>Weighted Averages (TLV-TWA)         |
| Boric Acid (10043-35-3)                   | TLV-STEL   | USA     | 6 mg/m³ STEL (inhalable particulate matter, listed under Borate compounds, inorganic)             | ACGIH - Threshold Limit Values -<br>Short Term Exposure Limits<br>(TLV-STEL) |
| Boric Acid (10043-35-3)                   | TLV-TWA    | USA     | "2 mg/m³ TWA (inhalable<br>particulate matter)" As<br>Borate compounds,<br>inorganic [RR-33876-1] | ACGIH - Threshold Limit Values - Time<br>Weighted Averages (TLV-TWA)         |
| Boric Acid (10043-35-3)                   | TLV-STEL   | USA     | "6 mg/m³ STEL (inhalable particulate matter)" As Borate compounds, inorganic [RR-33876-1]         | ACGIH - Threshold Limit Values -<br>Short Term Exposure Limits<br>(TLV-STEL) |
| Boric Acid (10043-35-3)                   | TLV-TWA    | USA     | 2 mg/m³ TWA (inhalable particulate matter)  | ACGIH - Threshold Limit Values - Time<br>Weighted Averages (TLV-TWA)         |
| Boric Acid (10043-35-3)                   | TLV-STEL   | USA     | 6 mg/m³ STEL (inhalable particulate matter)   | ACGIH - Threshold Limit Values -<br>Short Term Exposure Limits<br>(TLV-STEL) |
| Ammonium Hydroxide (1336-21-6)            | TLV-TWA    | USA     | 25 ppm TWA  | ACGIH - Threshold Limit Values - Time<br>Weighted Averages (TLV-TWA)         |
| Ammonium Hydroxide (1336-21-6)            | TLV-STEL   | USA     | 35 ppm STEL   | ACGIH - Threshold Limit Values -<br>Short Term Exposure Limits<br>(TLV-STEL) |
| Ammonium Hydroxide (1336-21-6)            | TWA        | USA     | 50 ppm TWA; 35 mg/m³<br>TWA   | U.S OSHA - Final PELs - Time<br>Weighted Averages (TWAs)                     |
| Ammonium Hexafluorosilicate (IV) (1       | 69 TLV-TWA | USA     | "2.5 mg/m³ TWA (as F)" As<br>Fluorides [RR-02792-9]   | ACGIH - Threshold Limit Values - Time<br>Weighted Averages (TLV-TWA)         |
| Ammonium Hexafluorosilicate (IV) (165 TWA |            | USA     | "2.5 mg/m³ TWA (as F)" As Fluorides [RR-02792-9]  | U.S OSHA - Final PELs - Time<br>Weighted Averages (TWAs)                     |
| Ammonium Hexafluorosilicate (IV) (1       | 69 TWA     | USA     | "2.5 mg/m³ TWA (as F)" As<br>Fluorides [RR-02792-9]   | U.S OSHA - Final PELs - Time<br>Weighted Averages (TWAs)                     |

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| Ammonium Hexafluorosilicate (IV           | ) (169 TLV-TWA | USA | "2.5 mg/m³ TWA (as F)" As                | ACGIH - Threshold Limit Values - Time |
|---|----------------|-----|--|---------------------------------------|
|   |                |     | Fluorides [RR-02792-9]                   | Weighted Averages (TLV-TWA)           |
| Ammonium Hexafluorosilicate (IV) (169 TWA |                | USA | "2.5 mg/m³ TWA (as F)" As                | U.S OSHA - Final PELs - Time          |
|   |                |     | Fluorides [RR-02792-9]                   | Weighted Averages (TWAs)              |
| Ammonium Hexafluorosilicate (IV           | ) (169 TLV-TWA | USA | "2.5 mg/m³ TWA (as F)" As                | ACGIH - Threshold Limit Values - Time |
|   |                |     | Fluorides [RR-02792-9]                   | Weighted Averages (TLV-TWA)           |
| Ammonium Hexafluorosilicate (IV           | ) (169 TLV-TWA | USA | "2.5 mg/m³ TWA (as F)" As                | ACGIH - Threshold Limit Values - Time |
|   |                |     | Fluorides [RR-02792-9]                   | Weighted Averages (TLV-TWA)           |
| Ammonium Hexafluorosilicate (IV           | ) (169 TWA     | USA | "2.5 mg/m³ TWA (as F)" As                | U.S OSHA - Final PELs - Time          |
|   |                |     | Fluorides [RR-02792-9]                   | Weighted Averages (TWAs)              |
| Ammonium Hexafluorosilicate (IV           | ) (169 TLV-TWA | USA | 2.5 mg/m³ TWA (as F)                     | ACGIH - Threshold Limit Values - Time |
|   |                |     |  | Weighted Averages (TLV-TWA)           |
| Ammonium Hexafluorosilicate (IV           | ) (168 TWA     | USA | 2.5 mg/m³ TWA (as F)                     | U.S OSHA - Final PELs - Time          |
| ·   |                |     | - ,                                      | Weighted Averages (TWAs)              |
| Ammonium Hexafluorosilicate (IV           | ) (169 TWA     | USA | "2.5 mg/m3 TWA (as F)" As                | U.S OSHA - Final PELs - Time          |
| ,   |                |     | Fluorides [RR-02792-9]                   | Weighted Averages (TWAs)              |
| Ammonium Hexafluorosilicate (IV           | ) (169 TLV-TWA | USA | "2.5 mg/m³ TWA (as F)" As                | ACGIH - Threshold Limit Values - Time |
| ·   | , ,            |     | Fluorides [RR-02792-9]                   | Weighted Averages (TLV-TWA)           |
| Molybdenum (7439-98-7)                    | TWA            | USA | "15 mg/m³ TWA (total dust)"              | U.S OSHA - Final PELs - Time          |
| ,   |                |     | As Molybdenum, insoluble                 | Weighted Averages (TWAs)              |
|   |                |     | compounds [RR-00037-3]                   |                                       |
| Molybdenum (7439-98-7)                    | TLV-TWA        | USA | 10 mg/m <sup>3</sup> TWA (inhalable      | ACGIH - Threshold Limit Values - Time |
| ,   |                |     | particulate matter); 3 mg/m <sup>3</sup> | Weighted Averages (TLV-TWA)           |
|   |                |     | TWA (respirable particulate              |                                       |
|   |                |     | matter)                                  |                                       |
| Molybdenum (7439-98-7)                    | TLV-TWA        | USA | 10 mg/m <sup>3</sup> TWA (inhalable      | ACGIH - Threshold Limit Values - Time |
| , ,                                       |                |     | particulate matter, as Mo); 3            | Weighted Averages (TLV-TWA)           |
|   |                |     | mg/m³ TWA (respirable                    |                                       |
|   |                |     | particulate matter, as Mo)               |                                       |
| Molybdenum (7439-98-7)                    | TWA            | USA | 15 mg/m³ TWA (total dust)                | U.S OSHA - Final PELs - Time          |
| , , ,                                     |                |     | 3 ( ,                                    | Weighted Averages (TWAs)              |
| Nickel (7440-02-0)                        | TLV-TWA        | USA | 1.5 mg/m³ TWA (inhalable                 | ACGIH - Threshold Limit Values - Time |
| ,   |                |     | particulate matter)                      | Weighted Averages (TLV-TWA)           |
| Nickel (7440-02-0)                        | TWA            | USA | 1 mg/m³ TWA                              | U.S OSHA - Final PELs - Time          |
| , ,                                       |                |     | Ŭ  | Weighted Averages (TWAs)              |
| Tin (7440-31-5)                           | TLV-TWA        | USA | "2 mg/m³ TWA (excluding                  | ACGIH - Threshold Limit Values - Time |
| , ,                                       |                | -   | tin hydride and indium tin               | Weighted Averages (TLV-TWA)           |
|   |                |     | oxide, inhalable particulate             | J ,                                   |
|   |                |     | matter, as Sn)" As Tin                   |                                       |
|   |                |     | inorganic compounds                      |                                       |
|   |                |     |  |                                       |

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| Tin (7440-31-5)               | TWA         | USA | "2 mg/m³ TWA (except<br>oxides, as Sn)" As Tin,<br>inorganic compounds<br>[RR-00043-1]  | U.S OSHA - Final PELs - Time<br>Weighted Averages (TWAs)             |
|-------------------------------|-------------|-----|---|--|
| Tin (7440-31-5)               | TWA         | USA | "2 mg/m³ TWA (except<br>oxides, as Sn)" As Tin,<br>inorganic compounds<br>[RR-00043-1]  | U.S OSHA - Final PELs - Time<br>Weighted Averages (TWAs)             |
| Tin (7440-31-5)               | TLV-TWA     | USA | 2 mg/m³ TWA (inhalable particulate matter)  | ACGIH - Threshold Limit Values - Time<br>Weighted Averages (TLV-TWA) |
| Tin (7440-31-5)               | TLV-TWA     | USA | 2 mg/m³ TWA (excluding tin<br>hydride and indium tin<br>oxide, inhalable particulate<br>matter, as Sn)                                  | ACGIH - Threshold Limit Values - Time<br>Weighted Averages (TLV-TWA) |
| Tin (7440-31-5)               | TWA         | USA | 2 mg/m³ TWA (except oxides, as Sn)  | U.S OSHA - Final PELs - Time<br>Weighted Averages (TWAs)             |
| Tin (7440-31-5)               | TWA         | USA | "2 mg/m³ TWA (except<br>oxides, as Sn)" As Tin,<br>inorganic compounds<br>[RR-00043-1]  | U.S OSHA - Final PELs - Time<br>Weighted Averages (TWAs)             |
| Tin (7440-31-5)               | TLV-TWA     | USA | "2 mg/m³ TWA (excluding tin hydride and indium tin oxide, inhalable particulate matter, as Sn)" As Tin inorganic compounds [RR-00043-1] | ACGIH - Threshold Limit Values - Time<br>Weighted Averages (TLV-TWA) |
| Vanadium (7440-62-2)          | PEL-Ceiling | USA | 0.5 mg/m³ Ceiling<br>(respirable dust, as V2O5);<br>0.1 mg/m³ Ceiling (fume, as<br>V2O5)  | U.S OSHA - Final PELs - Ceiling<br>Limits                            |
| Hydrofluoric Acid (7664-39-3) | TWA         | USA | "2.5 mg/m³ TWA (as F)" As<br>Fluorides [RR-02792-9]   | U.S OSHA - Final PELs - Time<br>Weighted Averages (TWAs)             |
| Hydrofluoric Acid (7664-39-3) | TLV-TWA     | USA | "2.5 mg/m³ TWA (as F)" As<br>Fluorides [RR-02792-9]   | ACGIH - Threshold Limit Values - Time<br>Weighted Averages (TLV-TWA) |
| Hydrofluoric Acid (7664-39-3) | TLV-TWA     | USA | 0.5 ppm TWA (as F)  | ACGIH - Threshold Limit Values - Time<br>Weighted Averages (TLV-TWA) |
| Hydrofluoric Acid (7664-39-3) | TWA         | USA | 3 ppm TWA (as F)  | U.S OSHA - Final PELs - Time<br>Weighted Averages (TWAs)             |
| Hydrofluoric Acid (7664-39-3) | TLV-Ceiling | USA | 2 ppm Ceiling (as F)  | ACGIH - Threshold Limit Values -<br>Ceilings (TLV-C)                 |

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| Hydrofluoric Acid (7664-39-3) | TLV-TWA  | USA | 2.5 mg/m <sup>3</sup> TWA (as F)    | ACGIH - Threshold Limit Values - Time |
|-------------------------------|----------|-----|-------------------------------------|---------------------------------------|
|                               |          |     |                                     | Weighted Averages (TLV-TWA)           |
| Hydrofluoric Acid (7664-39-3) | TWA      | USA | 2.5 mg/m³ TWA (as F)                | U.S OSHA - Final PELs - Time          |
|                               |          |     |                                     | Weighted Averages (TWAs)              |
| Nitric Acid (7697-37-2)       | TWA      | USA | 2 ppm TWA; 5 mg/m³ TWA              | U.S OSHA - Final PELs - Time          |
|                               |          |     |                                     | Weighted Averages (TWAs)              |
| Nitric Acid (7697-37-2)       | TLV-TWA  | USA | 2 ppm TWA                           | ACGIH - Threshold Limit Values - Time |
|                               |          |     |                                     | Weighted Averages (TLV-TWA)           |
| Nitric Acid (7697-37-2)       | TLV-STEL | USA | 4 ppm STEL                          | ACGIH - Threshold Limit Values -      |
|                               |          |     |                                     | Short Term Exposure Limits            |
|                               |          |     |                                     | (TLV-STEL)                            |
| Selenium (7782-49-2)          | TLV-TWA  | USA | "0.2 mg/m³ TWA (as Se)"             | ACGIH - Threshold Limit Values - Time |
|                               |          |     | As Selenium compounds               | Weighted Averages (TLV-TWA)           |
|                               |          |     | [RR-00612-2]                        |                                       |
| Selenium (7782-49-2)          | TWA      | USA | "0.2 mg/m <sup>3</sup> TWA (as Se)" | U.S OSHA - Final PELs - Time          |
|                               |          |     | As Selenium compounds               | Weighted Averages (TWAs)              |
|                               |          |     | [RR-00612-2]                        |                                       |
| Selenium (7782-49-2)          | TLV-TWA  | USA | "0.2 mg/m³ TWA (as Se)"             | ACGIH - Threshold Limit Values - Time |
|                               |          |     | As Selenium compounds               | Weighted Averages (TLV-TWA)           |
|                               |          |     | [RR-00612-2]                        |                                       |
| Selenium (7782-49-2)          | TWA      | USA | "0.2 mg/m <sup>3</sup> TWA (as Se)" | U.S OSHA - Final PELs - Time          |
|                               |          |     | As Selenium compounds               | Weighted Averages (TWAs)              |
|                               |          |     | [RR-00612-2]                        |                                       |
| Selenium (7782-49-2)          | TLV-TWA  | USA | "0.2 mg/m³ TWA (as Se)"             | ACGIH - Threshold Limit Values - Time |
|                               |          |     | As Selenium compounds               | Weighted Averages (TLV-TWA)           |
|                               |          |     | [RR-00612-2]                        |                                       |
| Selenium (7782-49-2)          | TWA      | USA | "0.2 mg/m³ TWA (as Se)"             | U.S OSHA - Final PELs - Time          |
|                               |          |     | As Selenium compounds               | Weighted Averages (TWAs)              |
|                               |          |     | [RR-00612-2]                        |                                       |
| Selenium (7782-49-2)          | TWA      | USA | "0.2 mg/m³ TWA (as Se)"             | U.S OSHA - Final PELs - Time          |
|                               |          |     | As Selenium compounds               | Weighted Averages (TWAs)              |
|                               |          |     | [RR-00612-2]                        |                                       |
| Selenium (7782-49-2)          | TLV-TWA  | USA | "0.2 mg/m³ TWA (as Se)"             | ACGIH - Threshold Limit Values - Time |
|                               |          |     | As Selenium compounds               | Weighted Averages (TLV-TWA)           |
|                               |          |     | [RR-00612-2]                        |                                       |
| Selenium (7782-49-2)          | TLV-TWA  | USA | "0.2 mg/m <sup>3</sup> TWA (as Se)" | ACGIH - Threshold Limit Values - Time |
|                               |          |     | As Selenium compounds               | Weighted Averages (TLV-TWA)           |
|                               |          |     | [RR-00612-2]                        |                                       |
| Selenium (7782-49-2)          | TWA      | USA | "0.2 mg/m³ TWA (as Se)"             | U.S OSHA - Final PELs - Time          |
|                               |          |     | As Selenium compounds               | Weighted Averages (TWAs)              |
|                               |          |     | [RR-00612-2]                        |                                       |

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| Selenium (7782-49-2)                    | TWA     | USA  | "0.2 mg/m³ TWA (as Se)"    | U.S OSHA - Final PELs - Time          |
|---|---------|------|----------------------------|---------------------------------------|
| 00.01.101.11 (1702 10 2)                |         | 00/1 | As Selenium compounds      | Weighted Averages (TWAs)              |
|   |         |      | [RR-00612-2]               | rreliginou / rreliages (Trinie)       |
| Selenium (7782-49-2)                    | TLV-TWA | USA  | "0.2 mg/m³ TWA (as Se)"    | ACGIH - Threshold Limit Values - Time |
| ,                                       |         |      | As Selenium compounds      | Weighted Averages (TLV-TWA)           |
|   |         |      | [RR-00612-2]               | 3                                     |
| Selenium (7782-49-2)                    | TLV-TWA | USA  | 0.2 mg/m³ TWA              | ACGIH - Threshold Limit Values - Time |
|   |         |      | ·                          | Weighted Averages (TLV-TWA)           |
| Selenium (7782-49-2)                    | TWA     | USA  | "0.2 mg/m³ TWA (as Se)"    | U.S OSHA - Final PELs - Time          |
|   |         |      | As Selenium compounds      | Weighted Averages (TWAs)              |
|   |         |      | [RR-00612-2]               |                                       |
| Selenium (7782-49-2)                    | TLV-TWA | USA  | "0.2 mg/m³ TWA (as Se)"    | ACGIH - Threshold Limit Values - Time |
|   |         |      | As Selenium compounds      | Weighted Averages (TLV-TWA)           |
|   |         |      | [RR-00612-2]               |                                       |
| Chromium Nitrate Nonahydrate (7789-(TWA |         | USA  | "0.5 mg/m3 TWA (as Cr)" As | U.S OSHA - Final PELs - Time          |
|   |         |      | Chromium(III) compounds    | Weighted Averages (TWAs)              |
|   |         |      | [RR-03889-1]               |                                       |
| Chromium Nitrate Nonahydrate (7789-(TWA |         | USA  | "0.5 mg/m3 TWA (as Cr)" As | U.S OSHA - Final PELs - Time          |
|   |         |      | Chromium(III) compounds    | Weighted Averages (TWAs)              |
|   |         |      | [RR-03889-1]               |                                       |
| Chromium Nitrate Nonahydrate (7789-(TWA |         | USA  | 0.5 mg/m³ TWA (as Cr)      | U.S OSHA - Final PELs - Time          |
|   |         |      |                            | Weighted Averages (TWAs)              |
| Chromium Nitrate Nonahydrate (7789-(TWA |         | USA  | "0.5 mg/m3 TWA (as Cr)" As | U.S OSHA - Final PELs - Time          |
|   |         |      | Chromium(III) compounds    | Weighted Averages (TWAs)              |
|   |         |      | [RR-03889-1]               |                                       |
| Chromium Nitrate Nonahydrate (7789-(TWA |         | USA  | "0.5 mg/m³ TWA (as Cr)" As | U.S OSHA - Final PELs - Time          |
|   |         |      | Chromium(III) compounds    | Weighted Averages (TWAs)              |
|   |         |      | [RR-03889-1]               |                                       |

#### 8.2. Exposure Controls

Engineering Controls: Use only outdoors or in a well-ventilated area. No specific controls are needed. Normal room ventilation is

adequate.

**Respiratory Protection:** In case of inadequate ventilation wear respiratory protection. Normal room ventilation is adequate.

**Skin Protection:** Wear protective gloves and eye protection. Chemical resistant gloves. **Eye Protection:** Wear protective gloves and eye protection. Safety glasses or goggles.

#### 8.3. Personal Protective Equipment

Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection. Normal room ventilation is adequate. Chemical resistant gloves. Safety glasses or goggles.

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### **SECTION 9: Physical and Chemical Properties**

#### 9.1. Basic Physical and Chemical Properties

Appearance: Colorless liquid

Physical State: Liquid

Odor: Data not available.

Odor Threshold: Data not available.

pH: acidic

Melting/Freezing Point: Approximately 0°C

Initial Boiling Point/Range: Approximately 100°C - Approximately 100°C

Flash Point: Data not available.

Evaporation Rate: Data not available.

Flammability: Data not available.

Flammability/Explosive Limits: Data not available.

Vapor Pressure: Data not available.

Vapor Density: Data not available.

Relative Density: 1.04

Solubility: Miscible

Partition Coefficient: Data not available.

Auto-Ignition Temperature: Data not available.

**Decomposition Temperature:** Data not available.

Viscosity: Data not available.

Explosive Properties: Data not available.

Oxidizing Properties: Data not available.

### **SECTION 10: Stability and Reactivity**

#### 10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage.

#### 10.2. Possibility of Hazardous Reactions

Data not available.

### 10.3. Conditions to Avoid and Incompatible Materials

Keep only in original container. Strong bases, metallic powders, Carbides, Hydrogen Sulfide, Turpentine and combustible organics.

#### 10.4. Hazardous Decomposition Products

Will not occur.

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### **SECTION 11: Toxicological Information**

#### 11.1. Information on Toxicological Effects

#### **Acute Toxicity - Oral Exposure:**

Not applicable.

#### **Acute Toxicity - Dermal Exposure:**

Not applicable.

#### **Acute Toxicity - Inhalation Exposure:**

Fatal if inhaled. Do not breathe fumes, mist, vapors, or spray. Use only outdoors or in a well-ventilated area. In case of inadequate ventilation wear respiratory protection. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. Specific treatment is urgent (Wash areas of contact with water.). Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

#### **Acute Toxicity - Other Information:**

LDLo, Oral, Human: 430 mg/kg (Nitric Acid), details of toxic effects not reported other than lethal dose value. Nickel is investigated as a tumorigen.

#### **Skin Corrosion and Irritation:**

Causes severe skin burns and eye damage. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water.). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

#### Serious Eye Damage and Irritation:

Causes serious eye damage. Wear protective gloves and eye protection. 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 or physician.

#### **Respiratory Sensitization:**

Not applicable.

#### **Skin Sensitization:**

May cause an allergic skin reaction. Avoid breathing fumes, mist, vapors, or spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves and eye protection. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical attention. Specific treatment (Wash areas of contact with water.). Wash contaminated clothing before reuse. Dispose of contents in accordance with local, state, federal and international regulations.

#### **Germ Cell Mutagenicity:**

Not applicable.

#### Carcinogenicity:

Not applicable.

#### **Reproductive Toxicity:**

Not applicable.

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#### **Specific Target Organ Toxicity from Single Exposure:**

Not applicable.

#### **Specific Target Organ Toxicity from Repeated Exposure:**

Not applicable.

#### **Aspiration Hazard:**

Not applicable.

#### **Additional Toxicology Information:**

Data not available.

### **SECTION 12: Ecological Information**

### 12.1. Ecotoxicity

Toxic to aquatic life. Avoid release to the environment. Dispose of contents in accordance with local, state, federal and international regulations. Toxic to aquatic life with long lasting effects. Avoid release to the environment. Collect spillage. Dispose of contents in accordance with local, state, federal and international regulations.

#### 12.2. Persistence and Degradability

Data not available.

#### 12.3. Bioaccumulative Potential

Data not available.

#### 12.4. Mobility in Soil

Data not available.

#### 12.5. Other Adverse Ecological Effects

Data not available.

### **SECTION 13: Disposal Considerations**

#### 13.1. Waste Treatment Methods

Data not available.

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### **SECTION 14: Transportation Information**

14.1. Transportation by Land-Department of Transportation (DOT, United States of America)

Sizes: 500 mL

UN Number: UN3264

Proper Shipping Name: Corrosive Liquid, Acidic, Inorganic, n.o.s. (Nitric Acid)

Hazard Class: 8

Packing Group: |||

Hazard Label(s):



14.2. Transportation by Air - International Air Transport Association (IATA)

Sizes: 500 mL

UN Number: UN3264

**Proper Shipping Name:** Corrosive Liquid, Acidic, Inorganic, n.o.s. (Nitric Acid)

Hazard Class: 8

Packing Group: |||

Hazard Label(s):



14.3 Transportation of Dangerous Goods (TDG, Canada)

Sizes: 500 mL

UN Number: UN3264

Proper Shipping Name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid)

Hazard Class: 8

Packing Group: |||

Hazard Label(s):



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### **SECTION 15: Regulatory Information**

#### 15.1. Occupational Safety and Health Administration (OSHA) Hazards

Not listed.

#### 15.2. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances

Ammonium Hydroxide (CAS # 1336-21-6): 100 lb EPCRA RQ Ammonium Hydroxide (CAS # 1336-21-6): 500 lb TPQ Hydrofluoric Acid (CAS # 7664-39-3): 100 lb EPCRA RQ Hydrofluoric Acid (CAS # 7664-39-3): 100 lb TPQ Nitric Acid (CAS # 7697-37-2): 1000 lb EPCRA RQ

Nitric Acid (CAS # 7697-37-2): 1000 lb TPQ

#### 15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals

Ammonium Hydroxide (CAS # 1336-21-6): 100 lb final RQ; 45.4 kg final RQ Ammonium Hydroxide (CAS # 1336-21-6): 1000 lb final RQ; 454 kg final RQ

Ammonium Hexafluorosilicate (IV) (CAS # 16919-19-0): 1000 lb final RQ; 454 kg final RQ

Nickel (CAS # 7440-02-0): 100 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is  $>100 \mu m$ ); 45.4 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is  $>100 \mu m$ )

Hydrofluoric Acid (CAS # 7664-39-3): 100 lb final RQ; 45.4 kg final RQ

Nitric Acid (CAS # 7697-37-2): 1000 lb final RQ; 454 kg final RQ

Selenium (CAS # 7782-49-2): 100 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is  $>100 \mu m$ ); 45.4 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is  $>100 \mu m$ )

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#### 15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)

Ammonium Hydroxide (CAS # 1336-21-6): "1.0 % de minimis concentration (10% of total aqueous Ammonia is reportable under this listing)" As Aqueous ammonia from water dissociable ammonium salts and other sources [RR-47925-4]

Ammonium Hydroxide (CAS # 1336-21-6): 1.0 % de minimis concentration (10% of total aqueous Ammonia is reportable under this listing)
Ammonium Hydroxide (CAS # 1336-21-6): 1.0 % de minimis concentration (includes anhydrous Ammonia and aqueous Ammonia from water dissociable Ammonium salts and other sources, 10% of total aqueous Ammonia is reportable under this listing)

Ammonium Hexafluorosilicate (IV) (CAS # 16919-19-0): "1.0 % de minimis concentration (10% of total aqueous Ammonia is reportable under this listing)" As Aqueous ammonia from water dissociable ammonium salts and other sources [RR-47925-4]

Ammonium Hexafluorosilicate (IV) (CAS # 16919-19-0): 1.0 % de minimis concentration (10% of total aqueous Ammonia is reportable under this listing)

Nickel (CAS # 7440-02-0): "0.1 % de minimis concentration (includes any unique chemical substance that contains Nickel as part of that chemical's infrastructure, listed under Chemical Category N495)" As Nickel compounds [RR-00800-4]

Nickel (CAS # 7440-02-0): 0.1 % de minimis concentration

Vanadium (CAS # 7440-62-2): 1.0 % de minimis concentration (except when contained in an alloy)

Hydrofluoric Acid (CAS # 7664-39-3): 1.0 % de minimis concentration

Nitric Acid (CAS # 7697-37-2): 1.0 % de minimis concentration

Selenium (CAS # 7782-49-2): "1.0 % de minimis concentration (includes any unique chemical substance that contains Selenium as part of that chemical's infrastructure, listed under Chemical Category N725)" As Selenium compounds [RR-00612-2]

Selenium (CAS # 7782-49-2): 1.0 % de minimis concentration

Chromium Nitrate Nonahydrate (CAS # 7789-02-8): "1.0 % de minimis concentration (includes any unique chemical substance that contains Chromium as part of that chemical's infrastructure except for Chromite ore

#### 15.5. Massachusetts Right-to-Know Substance List

Ammonium Hydroxide (CAS # 1336-21-6): Extraordinarily hazardous (including anhydrous)

Ammonium Hydroxide (CAS # 1336-21-6): Present

Ammonium Hexafluorosilicate (IV) (CAS # 16919-19-0): Present

Molybdenum (CAS # 7439-98-7): Present

Nickel (CAS # 7440-02-0): Carcinogen; Extraordinarily hazardous

Tin (CAS # 7440-31-5): Present

Vanadium (CAS # 7440-62-2): Present (dust and fume)

Hydrofluoric Acid (CAS # 7664-39-3): Extraordinarily hazardous

Nitric Acid (CAS # 7697-37-2): Extraordinarily hazardous

Selenium (CAS # 7782-49-2): Present

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#### 15.6. Pennsylvania Right-to-Know Hazardous Substances

Ammonium Hydroxide (CAS # 1336-21-6): Environmental hazard

Ammonium Hydroxide (CAS # 1336-21-6): Present

Ammonium Hexafluorosilicate (IV) (CAS # 16919-19-0): Environmental hazard

Ammonium Hexafluorosilicate (IV) (CAS # 16919-19-0): Present

Molybdenum (CAS # 7439-98-7): Present

Nickel (CAS # 7440-02-0): "Environmental hazard" As Nickel compounds [RR-00800-4]

Nickel (CAS # 7440-02-0): "Present" As Nickel compounds [RR-00800-4]

Nickel (CAS # 7440-02-0): Environmental hazard

Nickel (CAS # 7440-02-0): Environmental hazard; Special hazardous substance

Nickel (CAS # 7440-02-0): Present Tin (CAS # 7440-31-5): Present

Vanadium (CAS # 7440-62-2): Environmental hazard (dust; fume)

Vanadium (CAS # 7440-62-2): Present (dust; fume)

Hydrofluoric Acid (CAS # 7664-39-3): Environmental hazard

Hydrofluoric Acid (CAS # 7664-39-3): Present

Nitric Acid (CAS # 7697-37-2): Environmental hazard

Nitric Acid (CAS # 7697-37-2): Present

Water (CAS # 7732-18-5): "Present" As Ethyl alcohol and water [RR-00802-6]

Water (CAS # 7732-18-5): Present

Selenium (CAS # 7782-49-2): "Environmental hazard" As Selenium compounds [RR-00612-2]

Selenium (CAS # 7782-49-2): "Present" As Selenium compounds [RR-00612-2]

Selenium (CAS # 7782-49-2): Environmental hazard

Selenium (CAS # 7782-49-2): Present

Chromium Nitrate Nonahydrate (CAS # 7789-02-8): "Environmental hazard" As Chromium compounds [RR-00634-8]

Chromium Nitrate Nonahydrate (CAS # 7789-02-8): "Present" As Chromium compounds [RR-00634-8]

Chromium Nitrate Nonahydrate (CAS # 7789-02-8): Environmental hazard

Chromium Nitrate Nonahydrate (CAS # 7789-02-8): Present

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### 15.7. New Jersey Worker and Community Right-to-Know Components

Boric Acid (CAS # 10043-35-3): "sn 0241" As Borate compounds, inorganic [RR-33876-1]

Boric Acid (CAS # 10043-35-3): sn 0241

Ammonium Hydroxide (CAS # 1336-21-6): corrosive

Ammonium Hydroxide (CAS # 1336-21-6): sn 0084

Ammonium Hydroxide (CAS # 1336-21-6): SN 0084 500 lb TPQ (The reportable quantity for anhydrous Ammonia is based on 100% of the anhydrous

Ammonia. The reportable quantity for aqueous Ammonia is the Ammonia equivalent weight for concentrations of >=20%.)

Ammonium Hydroxide (CAS # 1336-21-6): sn 0103

Ammonium Hexafluorosilicate (IV) (CAS # 16919-19-0): "sn 0936" As Fluorides [RR-02792-9]

Ammonium Hexafluorosilicate (IV) (CAS # 16919-19-0): sn 0101

Ammonium Hexafluorosilicate (IV) (CAS # 16919-19-0): sn 0936

Molybdenum (CAS # 7439-98-7): sn 1309

Nickel (CAS # 7440-02-0): "carcinogen" As Nickel compounds [RR-00800-4]

Nickel (CAS # 7440-02-0): "SN 2366 500 lb TPQ (Category Code N495. Includes any unique chemical substance that contains the named metal as

part of that chemical structure)" As Nickel compounds [RR-00800-4]

Nickel (CAS # 7440-02-0): "sn 2366" As Nickel compounds [RR-00800-4]

Nickel (CAS # 7440-02-0): carcinogen

Nickel (CAS # 7440-02-0): sn 1341 Nickel (CAS # 7440-02-0): SN 1341 500 lb TPQ

Tin (CAS # 7440-31-5): flammable - third degree

Tin (CAS # 7440-31-5): sn 1858

Vanadium (CAS # 7440-62-2): sn 3762

Vanadium (CAS # 7440-62-2): SN 3762 500 lb TPQ (except when contained in an alloy)

Hydrofluoric Acid (CAS # 7664-39-3): "sn 0936" As Fluorides [RR-02792-9]

Hydrofluoric Acid (CAS # 7664-39-3): corrosive

Hydrofluoric Acid (CAS # 7664-39-3): sn 0936

Hydrofluoric Acid (CAS # 7664-39-3): sn 3759

Hydrofluoric Acid (CAS # 7664-39-3): SN 3759 100 lb TPQ; SN 1014 100 lb TPQ

Nitric Acid (CAS # 7697-37-2): corrosive; reactive - second degree

Nitric Acid (CAS # 7697-37-2): sn 1356

Nitric Acid (CAS # 7697-37-2): SN 1356 500 lb TPQ

Nitric Acid (CAS # 7697-37-2): sn 3722

Nitric Acid (CAS # 7697-37-2): SN 3722 500 lb TPQ (water dissociable, Category Code N511)

S

#### 15.8. California Proposition 65

Nickel (CAS # 7440-02-0): "carcinogen, 5/7/2004" As Nickel compounds [RR-00800-4]

Nickel (CAS # 7440-02-0): carcinogen, 10/1/1989 (metallic)

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#### 15.9. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

Boric Acid (CAS # 10043-35-3): Present (DSL)

Ammonium Hydroxide (CAS # 1336-21-6): Present (DSL)

Ammonium Hexafluorosilicate (IV) (CAS # 16919-19-0): Present (DSL)

Molybdenum (CAS # 7439-98-7): Present (DSL)

Nickel (CAS # 7440-02-0): Present (DSL)

Tin (CAS # 7440-31-5): Present (DSL)

Vanadium (CAS # 7440-62-2): Present (DSL)

Hydrofluoric Acid (CAS # 7664-39-3): Present (DSL)

Nitric Acid (CAS # 7697-37-2): Present (DSL)

Water (CAS # 7732-18-5): Present (DSL)

Selenium (CAS # 7782-49-2): Present (DSL)

Chromium Nitrate Nonahydrate (CAS # 7789-02-8): Present (DSL)

#### 15.10. United States of America Toxic Substances Control Act (TSCA) List

All components of this solution are listed as active on the TSCA Inventory or are mixtures (hydrates) of active items listed on the TSCA Inventory.

Boric Acid (CAS # 10043-35-3): Present (ACTIVE)

Ammonium Hydroxide (CAS # 1336-21-6): Present (ACTIVE)

Ammonium Hexafluorosilicate (IV) (CAS # 16919-19-0): Present (ACTIVE)

Molybdenum (CAS # 7439-98-7): Present (ACTIVE)

Nickel (CAS # 7440-02-0): Present (ACTIVE)

Tin (CAS # 7440-31-5): Present (ACTIVE)

Vanadium (CAS # 7440-62-2): Present (ACTIVE)

Hydrofluoric Acid (CAS # 7664-39-3): Present (ACTIVE)

Nitric Acid (CAS # 7697-37-2): Present (ACTIVE)

Water (CAS # 7732-18-5): Present (ACTIVE)

Selenium (CAS # 7782-49-2): Present (ACTIVE)

Chromium Nitrate Nonahydrate (CAS # 7789-02-8): Present (ACTIVE)

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# 15.11. European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

Boric Acid (CAS # 10043-35-3): 233-139-2 Boric Acid (CAS # 10043-35-3): 234-343-4

Ammonium Hydroxide (CAS # 1336-21-6): 215-647-6 Ammonium Hydroxide (CAS # 1336-21-6): 231-635-3

Ammonium Hexafluorosilicate (IV) (CAS # 16919-19-0): 240-968-3

Molybdenum (CAS # 7439-98-7): 231-107-2

Nickel (CAS # 7440-02-0): 231-111-4 Tin (CAS # 7440-31-5): 231-141-8

Vanadium (CAS # 7440-62-2): 231-171-1

Hydrofluoric Acid (CAS # 7664-39-3): 231-634-8

Nitric Acid (CAS # 7697-37-2): 231-714-2

Water (CAS # 7732-18-5): 231-791-2 Selenium (CAS # 7782-49-2): 231-957-4

Chromium Nitrate Nonahydrate (CAS # 7789-02-8): 236-921-1

#### **SECTION 16: Other Information**

### 16.1. Full Text of Hazard Statements and Precautionary Statements

May be corrosive to metals. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Fatal if inhaled. Toxic to aquatic life with long lasting effects.

Keep only in original container. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. 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 or physician. Specific treatment is urgent (Wash areas of contact with water.). If skin irritation occurs: Get medical attention. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. Collect spillage.

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in corrosive resistant container with a resistant inner liner.

Dispose of contents in accordance with local, state, federal and international regulations.

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#### 16.2. Miscellaneous Hazard Classes

Canadian Carcinogenicity Hazard Class: Not Applicable.

Physical Hazards Not Otherwise Classified (PHNOC): Not Applicable.

Health Hazards Not Otherwise Classified (HHNOC): Not Applicable.

Biohazardous Infectious Materials Hazard Class: Not Applicable.

#### 16.3. National Fire Protection Association (NFPA) Rating

Health: 2
Flammability: 0
Reactivity: 0
Special Hazard:



#### 16.4. Document Revision

Last Revision Date: 2023-10-11

#### **DISCLAIMER**

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.

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