RICCA CHEMICAL COMPANY®

# Safety Data Sheet

Classified according to WHMIS 2015

## SECTION 1: Identification

### 1.1. Product Identifier

**Trade Name or Designation:** Beryllium ICP-MS Standard, 1000 ppm Be in 3% $HNO_3$

**Product Number:** MSBE1KN

**Other Identifying Product Numbers:** MSBE1KN-100

### 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 |

# Safety Data Sheet

## 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 Class | Category | Hazard 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 |
| Carcinogenicity | Category 1 | H350 | P201, P202, P280, P308+P313, P405, 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:**

| Hazard Number | 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. |
| H350 | May cause cancer. |
| H401 | Toxic to aquatic life. |
| H411 | Toxic to aquatic life with long lasting effects. |

**Precautionary Statements:**

| Precautionary Number | Precautionary Statement |
|---|---|
| P201 | Obtain special instructions before use. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| 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. |
| P308+P313 | IF exposed or concerned: Get medical attention. |
| P310 | Immediately call a POISON CENTER or physician. |
| P320 | Specific treatment is urgent (Wash areas of contact with water immediately). |
| P321 | Specific treatment (Wash areas of contact with water immediately). |
| 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.

# Safety Data Sheet

## SECTION 3: Composition / Information on Ingredients

### 3.1. Components of Substance or Mixture

| Chemical Name | Formula | Molecular Weight | CAS Number | Weight% |
|---|---|---|---|---|
| Water | $H_2O$ | 18.01 g/mol | 7732-18-5 | 96.77 |
| Nitric Acid | $HNO_3$ | 63.01 g/mol | 7697-37-2 | 3.09 |
| Beryllium | Be | 9.01 g/mol | 7440-41-7 | 0.10 |
| Hydrofluoric Acid | HF | 20.00 g/mol | 7664-39-3 | < 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. May cause cancer. Caution! Mildly corrosive liquid. Contains low level of a known carcinogen. Avoid contact with skin, eyes, and clothing. If swallowed, 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.

### 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 immediately). Specific treatment (Wash areas of contact with water immediately). 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. Keep out of direct sunlight and away from heat, water, and incompatible materials.

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## SECTION 8: Exposure Controls / Personal Protection

### 8.1 Control Parameters

| Chemical Name | Limit Type | Country | Exposure Limit | Information Source |
|---|---|---|---|---|
| Beryllium (7440-41-7) | TLV-TWA | USA | "0.00005 mg/m³ TWA (inhalable particulate matter, as Be)" As Beryllium compounds [RR-00557-2] | ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA) |
| Beryllium (7440-41-7) | TWA | USA | "0.2 µg/m³ TWA (as Be)" As Beryllium compounds [RR-00557-2] | U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs) |
| Beryllium (7440-41-7) | PEL-Ceiling | USA | "2 µg/m³ Ceiling (as Be)" As Beryllium compounds [RR-00557-2] | U.S. - OSHA - Final PELs - Ceiling Limits |
| Beryllium (7440-41-7) | TLV-TWA | USA | "0.00005 mg/m³ TWA (inhalable particulate matter, as Be)" As Beryllium compounds [RR-00557-2] | ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA) |
| Beryllium (7440-41-7) | TWA | USA | "0.2 µg/m³ TWA (as Be)" As Beryllium compounds [RR-00557-2] | U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs) |
| Beryllium (7440-41-7) | PEL-Ceiling | USA | "2 µg/m³ Ceiling (as Be)" As Beryllium compounds [RR-00557-2] | U.S. - OSHA - Final PELs - Ceiling Limits |
| Beryllium (7440-41-7) | PEL | USA | 0.2 µg/m³ TWA (See 29 CFR 1910.1024); 0.1 µg/m³ Action Level; 2.0 µg/m³ STEL (15 min) | U.S. - OSHA - Specifically Regulated Chemicals with PELs |
| Beryllium (7440-41-7) | PEL-STEL | USA | 2 µg/m³ STEL (see 29 CFR 1910.1024) | U.S. - OSHA - Final PELs - Short Term Exposure Limits |
| Beryllium (7440-41-7) | TLV-TWA | USA | 0.00005 mg/m³ TWA (inhalable particulate matter) | ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA) |
| Beryllium (7440-41-7) | PEL-Ceiling | USA | 2 µg/m³ Ceiling | U.S. - OSHA - Final PELs - Ceiling Limits |
| Beryllium (7440-41-7) | TWA | USA | 0.2 µg/m³ TWA | U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs) |

| | | | | |
|---|---|---|---|---|
| Beryllium (7440-41-7) | PEL-Ceiling | USA | "2 µg/m³ Ceiling (as Be)" As Beryllium compounds [RR-00557-2] | U.S. - OSHA - Final PELs - Ceiling Limits |
| Beryllium (7440-41-7) | TWA | USA | "0.2 µg/m³ TWA (as Be)" As Beryllium compounds [RR-00557-2] | U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs) |
| Beryllium (7440-41-7) | TLV-TWA | USA | "0.00005 mg/m³ TWA (inhalable particulate matter, as Be)" As Beryllium compounds [RR-00557-2] | ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA) |
| Hydrofluoric Acid (7664-39-3) | TWA | USA | "2.5 mg/m³ TWA (as F)" As Fluorides [RR-02792-9] | U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs) |
| Hydrofluoric Acid (7664-39-3) | TLV-TWA | USA | "2.5 mg/m³ TWA (as F)" As Fluorides [RR-02792-9] | ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA) |
| Hydrofluoric Acid (7664-39-3) | TLV-TWA | USA | 0.5 ppm TWA (as F) | ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA) |
| Hydrofluoric Acid (7664-39-3) | TWA | USA | 3 ppm TWA (as F) | U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs) |
| Hydrofluoric Acid (7664-39-3) | TLV-Ceiling | USA | 2 ppm Ceiling (as F) | ACGIH - Threshold Limit Values - Ceilings (TLV-C) |
| Hydrofluoric Acid (7664-39-3) | TLV-TWA | USA | 2.5 mg/m³ 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) |

## 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.

## 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:** 1.02
**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.

## 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 immediately). 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.

**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 immediately). 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 immediately). Wash contaminated clothing before reuse. Dispose of contents in accordance with local, state, federal and international regulations.

**Germ Cell Mutagenicity:**

Not applicable.

**Carcinogenicity:**

May cause cancer. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

**Reproductive Toxicity:**

Not applicable.

**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:** 100 mL

**UN Number:** UN3264

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

**Hazard Class:** 8

**Packing Group:** III

**Hazard Label(s):**


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

**Sizes:** 100 mL

**UN Number:** UN3264

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

**Hazard Class:** 8

**Packing Group:** III

**Hazard Label(s):**


### 14.3 Transportation of Dangerous Goods (TDG, Canada)

**Sizes:** 100 mL

**UN Number:** UN3264

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

**Hazard Class:** 8

**Packing Group:** III

**Hazard Label(s):**

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## SECTION 15: Regulatory Information

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

Beryllium (CAS # 7440-41-7): 0.2 µg/m3 TWA (See 29 CFR 1910.1024); 0.1 µg/m3 Action Level (See 29 CFR 1910.1024); 2.0 µg/m3 STEL (See 29 CFR 1910.1024, 15 min)

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

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

Beryllium (CAS # 7440-41-7): 10 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 µm); 4.54 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 µm)
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

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

Beryllium (CAS # 7440-41-7): "0.1 % de minimis concentration (includes any unique chemical substance that contains Beryllium as part of that chemical's infrastructure, listed under Chemical Category N050)" As Beryllium compounds [RR-00557-2]
Beryllium (CAS # 7440-41-7): 0.1 % de minimis concentration
Hydrofluoric Acid (CAS # 7664-39-3): 1.0 % de minimis concentration
Nitric Acid (CAS # 7697-37-2): 1.0 % de minimis concentration

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

Beryllium (CAS # 7440-41-7): Carcinogen; Extraordinarily hazardous
Hydrofluoric Acid (CAS # 7664-39-3): Extraordinarily hazardous
Nitric Acid (CAS # 7697-37-2): Extraordinarily hazardous

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

Beryllium (CAS # 7440-41-7): "Environmental hazard" As Beryllium compounds [RR-00557-2]
Beryllium (CAS # 7440-41-7): "Present" As Beryllium compounds [RR-00557-2]
Beryllium (CAS # 7440-41-7): Environmental hazard (dust; metal); Special hazardous substance
Beryllium (CAS # 7440-41-7): Present
Beryllium (CAS # 7440-41-7): Present (dust; metal)
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

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

Beryllium (CAS # 7440-41-7): "carcinogen" As Beryllium compounds [RR-00557-2]
Beryllium (CAS # 7440-41-7): "SN 2163 500 lb TPQ (Category Code N050. Includes any unique chemical substance that contains the named metal as part of that chemical structure)" As Beryllium compounds [RR-00557-2]
Beryllium (CAS # 7440-41-7): "sn 2163" As Beryllium compounds [RR-00557-2]
Beryllium (CAS # 7440-41-7): carcinogen
Beryllium (CAS # 7440-41-7): sn 0222
Beryllium (CAS # 7440-41-7): SN 0222 500 lb TPQ
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)

## 15.8. California Proposition 65

Beryllium (CAS # 7440-41-7): "carcinogen, 10/1/1987" As Beryllium compounds [RR-00557-2]
Beryllium (CAS # 7440-41-7): 0.1 µg/day NSRL
Beryllium (CAS # 7440-41-7): carcinogen, 10/1/1987

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

Beryllium (CAS # 7440-41-7): 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)

## 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.**

Beryllium (CAS # 7440-41-7): 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)

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

Beryllium (CAS # 7440-41-7): 231-150-7
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

## 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. May cause cancer. Toxic to aquatic life with long lasting effects.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. IF exposed or concerned: Get medical attention. Specific treatment is urgent (Wash areas of contact with water immediately). 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.

### 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.

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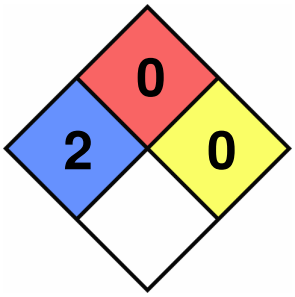
## 16.3. National Fire Protection Association (NFPA) Rating

| | |
|---|---|
| **Health:** | 2 |
| **Flammability:** | 0 |
| **Reactivity:** | 0 |
| **Special Hazard:** | |




## 16.4. Document Revision

**Last Revision Date:** 2023-09-11

## 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.