



## Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

### SECTION 1: Identification

#### 1.1. Product Identifier

**Trade Name or Designation** Mercuric Sulfate-Silver Nitrate Special Reagent, for Manganese Determination

**Product Number** 4775

**Other Identifying Product Numbers** 4775-32

#### 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** 412 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

| Hazard Class                                              | Category   | Hazard Statements | Precautionary Statements                                                                       |
|-----------------------------------------------------------|------------|-------------------|------------------------------------------------------------------------------------------------|
| Acute Toxicity - Oral                                     | Category 3 | H301              | P264,P270,P301+P310,P321,P330,P405,P501                                                        |
| Acute Toxicity - Dermal                                   | Category 2 | H310              | P262,P264,P270,P280,P302+P352,P310,P321,P361+P364,P405,P501                                    |
| Acute Toxicity - Inhalation (Vapors)                      | Category 4 | H332              | P261,P271,P304+P340,P312                                                                       |
| Acute Toxicity - Inhalation (Dusts and Mists)             | Category 3 | H331              | P261,P271,P304+P340,P311,P321,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 |
| Serious Eye Damage / Eye Irritation                       | Category 1 | H318              | P280,P305+P351+P338,P310                                                                       |
| Corrosive to Metals                                       | Category 1 | H290              | P234,P390,P406                                                                                 |
| Specific Target Organ Toxicity - Repeated Exposure        | Category 1 | H372              | P260,P264,P270,P314,P501                                                                       |
| Hazardous to the Aquatic Environment, Short-term (Acute)  | Acute 2    | H401              | P273,P501                                                                                      |
| Hazardous to the Aquatic Environment, Long-term (Chronic) | Chronic 2  | H411              | P273,P391,P501                                                                                 |

#### 2.2. GHS Label Elements

Pictograms:



Signal Word: **Danger**

Hazard Statements:

NOTE: Hazard statements may be combined on labels to improve clarity and readability.

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| Hazard Number | Hazard Statement                                                                        |
|---------------|-----------------------------------------------------------------------------------------|
| H290          | May be corrosive to metals                                                              |
| H301+H331     | Toxic if swallowed or if inhaled                                                        |
| H310          | Fatal in contact with skin                                                              |
| H314          | Causes severe skin burns and eye damage                                                 |
| H332          | Harmful if inhaled                                                                      |
| H372          | Causes damage to central nervous system, kidneys through prolonged or repeated exposure |
| H411          | Toxic to aquatic life with long lasting effects                                         |

## Precautionary Statements:

NOTE: Precautionary statements may be combined or consolidated on labels to improve clarity and readability.

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## Prevention

| Precautionary Number | Precautionary Statement                               |
|----------------------|-------------------------------------------------------|
| P234                 | Keep only in original packaging.                      |
| P260                 | Do not breathe fumes or mist.                         |
| P262                 | Do not get in eyes, on skin, or on clothing.          |
| P264                 | Wash hands, arms, and face thoroughly after handling. |
| P270                 | Do not eat, drink or smoke when using this product.   |
| P271                 | Use only outdoors or in a well-ventilated area.       |
| P273                 | Avoid release to the environment.                     |
| P280                 | Wear protective gloves and eye protection.            |

## Response

| Precautionary Number | Precautionary Statement                                                                                                          |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------|
| P301+P310            | IF SWALLOWED: Immediately call a POISON CENTER or doctor.                                                                        |
| P303+P361+P353       | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.                           |
| 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 doctor.                                                                                      |
| P314                 | Get medical advice or attention if you feel unwell.                                                                              |
| P330                 | Rinse mouth.                                                                                                                     |
| P361+P364            | Take off immediately all contaminated clothing and wash it before reuse.                                                         |
| P390                 | Absorb spillage to prevent material damage.                                                                                      |
| P391                 | Collect spillage.                                                                                                                |

## Storage

| Precautionary Number | Precautionary Statement                                          |
|----------------------|------------------------------------------------------------------|
| P403+P233            | Store in a well-ventilated place. Keep container tightly closed. |
| P405                 | Store locked up.                                                 |

## Disposal

| Precautionary Number | Precautionary Statement                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------|
| P501                 | Dispose of contents/container to suitable waste stream in accordance with local, state, federal, and international regulations. |

## 2.3. Hazards not Otherwise Classified

No other hazards identified.

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### 2.4. Ingredients of Unknown Acute Toxicity

27.7 percent of this mixture consists of ingredient(s) of unknown acute oral and dermal toxicity.

## SECTION 3: Composition / Information on Ingredients

### 3.1. Components of Mixture

| Chemical Name (IUPAC) | Common Name and Synonyms                                | CAS Number | Weight% |
|-----------------------|---------------------------------------------------------|------------|---------|
| water                 | Water                                                   | 7732-18-5  | 46.99   |
| nitric acid           | Nitric Acid                                             | 7697-37-2  | 27.67   |
| phosphoric acid       | Phosphoric Acid; o-Phosphoric acid                      | 7664-38-2  | 20.09   |
| mercury(2+) sulfate   | Mercuric Sulfate; Sulfuric acid, mercury(2+) salt (1:1) | 7783-35-9  | 5.24    |
| silver nitrate        | Silver Nitrate; Nitric acid, silver(1+) salt            | 7761-88-8  | < 0.1   |

## SECTION 4: First-Aid Measures

### 4.1. Description of Necessary Measures

**Eye Contact:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Irritant, possibly corrosive to eye tissue. Symptoms include tearing, redness, pain, and impaired vision.

**Ingestion:** IF SWALLOWED: Immediately call a POISON CENTER or doctor. Dilute with water or milk. Vomiting may occur spontaneously but do not induce. Call a physician immediately.

**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 or shower. May irritate damaged skin, absorption can occur with effects similar to those via ingestion.

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

Harmful if inhaled DANGER! Corrosive and Toxic! Causes severe burns. May be fatal if swallowed. Do not get in eyes, on skin or clothing. Avoid breathing vapor. Use with adequate ventilation. If ingested, do not induce vomiting. Dilute with large quantity of water and call a physician. Wash areas of contact with plenty of water. EYE CONTACT: Irritant, possibly corrosive to eye tissue. Symptoms include tearing, redness, pain, and impaired vision. SKIN CONTACT: May irritate damaged skin, absorption can occur with effects similar to those via ingestion. CHRONIC EFFECTS / CARCINOGENICITY: Chronic exposure can lead to central nervous system damage.

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

Immediately call a poison center or doctor. 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. Wash areas of contact with soap and water for at least 15 minutes. Call a physician if irritation develops. Dilute with water or milk. Vomiting may occur spontaneously but do not induce. Call a physician immediately.

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## SECTION 5: Fire-Fighting Measures

### 5.1. Extinguishing Media

Does not burn. Use extinguishing media appropriate for surrounding fire. This material does not burn. Use appropriate media to extinguish source of fire

### 5.2. Specific Hazards Arising from the Substance or Mixture in a Fire

Not combustible. Evolves hydrogen on contact with most metals. Combustion by-products include oxides of phosphorus. Strong oxidizer. Contact of concentrated nitric acid with combustible materials may increase the hazard from fire and may lead to an explosion. Decomposes at fire temperature with release of oxides of nitrogen. Releases hydrogen gas on contact with many metals.

### 5.3. Special Protective Equipment and Precautions for Firefighters

Wear special protective clothing and positive pressure self-contained breathing apparatus. Butyl rubber, natural rubber, Neoprene, nitrile rubber, or polyvinyl alcohol barrier recommended. Wear special protective clothing and positive pressure self-contained breathing apparatus. Butyl rubber, natural rubber, Neoprene, nitrile rubber, polyethylene, or Saranex barrier recommended.

## SECTION 6: Accidental Release Measures

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

Wear protective gloves and eye protection.

### 6.2. Cleanup and Containment Methods and Materials

Releases may require isolation or evacuation. Approach release from upwind. Stop or control the leak, if this can be done without undue risk. Use water spray to cool and disperse vapors and protect personnel. Avoid solid stream on pooled liquids. Prompt cleanup and removal are necessary. Control runoff and isolate discharged material for proper disposal. Stop or control the leak, if this can be done without undue risk. Control runoff and isolate discharged material for proper disposal.

## SECTION 7: Handling and Storage

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

Store in a well-ventilated place. Keep container tightly closed. Store locked up. As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.

## SECTION 8: Exposure Controls / Personal Protection

### 8.1. Exposure Limits

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### U.S. OSHA - Permissible Exposure Limits (PEL) - Time Weighted Averages (TWA)

| Chemical Name   | CAS Number | Exposure Limit                                                    |
|-----------------|------------|-------------------------------------------------------------------|
| Phosphoric Acid | 7664-38-2  | 1 mg/m3 TWA                                                       |
| Nitric Acid     | 7697-37-2  | 2 ppm TWA; 5 mg/m3 TWA                                            |
| Silver Nitrate  | 7761-88-8  | "0.01 mg/m3 TWA (as Ag)" As Silver soluble compounds [RR-00041-9] |

### U.S. OSHA - Permissible Exposure Limits (PEL) - Ceiling Limits

No limits found.

### U.S. OSHA - Permissible Exposure Limits (PEL) - Short Term Exposure Limits (STEL)

No limits found.

### U.S. OSHA - Specifically Regulated Chemicals

No limits found.

### ACGIH - Threshold Limit Values - Ceilings (TLV-C)

No limits found.

### ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL)

| Chemical Name   | CAS Number | Exposure Limit |
|-----------------|------------|----------------|
| Phosphoric Acid | 7664-38-2  | 3 mg/m3 STEL   |
| Nitric Acid     | 7697-37-2  | 4 ppm STEL     |

### ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)

| Chemical Name    | CAS Number | Exposure Limit                                                    |
|------------------|------------|-------------------------------------------------------------------|
| Phosphoric Acid  | 7664-38-2  | 1 mg/m3 TWA                                                       |
| Nitric Acid      | 7697-37-2  | 2 ppm TWA                                                         |
| Silver Nitrate   | 7761-88-8  | "0.01 mg/m3 TWA (as Ag)" As Silver soluble compounds [RR-00041-9] |
| Mercuric Sulfate | 7783-35-9  | "0.025 mg/m3 TWA (as Hg)" As Mercury inorganic forms [RR-00569-6] |

## 8.2. Engineering Controls

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

## 8.3. Individual Protective Measures and Personal Protective Equipment

**Respiratory Protection:** Normal room ventilation is adequate.

**Skin Protection:** Chemical resistant gloves.

**Eye Protection:** Safety glasses or goggles.

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## SECTION 9: Physical and Chemical Properties

### 9.1. Basic Physical and Chemical Properties

|                                                   |                     |
|---------------------------------------------------|---------------------|
| <b>Physical State:</b>                            | liquid              |
| <b>Color:</b>                                     | Colorless           |
| <b>Odor:</b>                                      | Data not available. |
| <b>Odor Threshold:</b>                            | Data not available. |
| <b>Melting/Freezing Point:</b>                    | Data not available. |
| <b>Boiling Point/Range:</b>                       | Approximately 100°C |
| <b>Flammability:</b>                              | Data not available. |
| <b>Flammability/Explosive Limits:</b>             | Data not available. |
| <b>Flash Point:</b>                               | Not flammable       |
| <b>Auto-Ignition Temperature:</b>                 | Data not available. |
| <b>Decomposition Temperature:</b>                 | Data not available. |
| <b>pH:</b>                                        | Acidic              |
| <b>Kinematic Viscosity:</b>                       | Data not available. |
| <b>Solubility:</b>                                | miscible            |
| <b>Vapor Pressure:</b>                            | Data not available. |
| <b>Evaporation Rate:</b>                          | Data not available. |
| <b>Relative Density:</b>                          | 1.43                |
| <b>Relative Vapor Density:</b>                    | Data not available. |
| <b>Particle Characteristics:</b>                  | Data not available. |
| <b>Partition Coefficient n-octanol/water, log</b> | 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 packaging. Strong Acids, most metals.

### 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:

Oral acute toxicity estimate (ATE): 68 mg/kg(calculated)

| Chemical Name    | CAS Number | Toxicity                                                 |
|------------------|------------|----------------------------------------------------------|
| Phosphoric Acid  | 7664-38-2  | Oral LD50 3000 mg/kg (Source: Canada_WHMIS)              |
| Silver Nitrate   | 7761-88-8  | Oral LD50 Rat 1173 mg/kg (Source: NLM_CIP)               |
| Mercuric Sulfate | 7783-35-9  | Oral LD50 Acute Toxicity Estimate 5 mg/kg (Source: ECHA) |

##### Acute Toxicity - Dermal Exposure:

Dermal acute toxicity estimate (ATE): 68 mg/kg(calculated)

| Chemical Name    | CAS Number | Toxicity                                                   |
|------------------|------------|------------------------------------------------------------|
| Phosphoric Acid  | 7664-38-2  | Dermal LD50 Rabbit 2740 mg/kg (Source: JAPAN_GHS)          |
| Silver Nitrate   | 7761-88-8  | Dermal LD50 Rat >2000 mg/kg (Source: ECHA_API)             |
| Mercuric Sulfate | 7783-35-9  | Dermal LD50 Acute Toxicity Estimate 5 mg/kg (Source: ECHA) |

##### Acute Toxicity - Inhalation Exposure:

Inhalation acute toxicity estimate (ATE, vapor): 11.6372 mg/L, 4 h(calculated); Inhalation acute toxicity estimate (ATE, dust or mist): 0.8677 mg/L, 4

| Chemical Name    | CAS Number | Toxicity                                                                           |
|------------------|------------|------------------------------------------------------------------------------------|
| Phosphoric Acid  | 7664-38-2  | Inhalation LC50 Rat 3846 mg/m3 1 h (Source: OECD_HPVS)                             |
| Nitric Acid      | 7697-37-2  | Inhalation LC50 Rat 3.22 mg/L 4 h (Source: WHMIS)                                  |
| Silver Nitrate   | 7761-88-8  | Inhalation LC50 Rat >750 µg/m3 4 h (no deaths occurred, aerosol, Source: ECHA_API) |
| Mercuric Sulfate | 7783-35-9  | Inhalation LC50 Acute Toxicity Estimate 0.05 mg/L 4 h (Source: ECHA)               |

#### 11.2 Carcinogenicity:

##### International Agency for Research on Cancer (IARC)

| Chemical Name    | CAS Number | Classification                                                                                                |
|------------------|------------|---------------------------------------------------------------------------------------------------------------|
| Nitric Acid      | 7697-37-2  | Group 1 (Carcinogenic to Humans) - Monograph 100F [2012]; Monograph 54 [1992] As Acid mists, strong inorganic |
| Mercuric Sulfate | 7783-35-9  | Group 3 (Not Classified) - Monograph 58 [1993] As Mercury inorganic compounds                                 |

##### National Toxicology Program (NTP)

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| Chemical Name  | CAS Number | Classification |
|----------------|------------|----------------|
| No data found. |            |                |

## U.S. OSHA specifically regulated carcinogens

| Chemical Name  | CAS Number | Classification |
|----------------|------------|----------------|
| No data found. |            |                |

## 11.3 Additional Toxicology Information:

Toxic if swallowed or if inhaled. Fatal in contact with skin. Causes severe skin burns and eye damage. Harmful if inhaled. Causes damage to central nervous system, kidneys through prolonged or repeated exposure.

## SECTION 12: Ecological Information

### 12.1. Ecotoxicity

| Chemical Name  | CAS Number | Species         | Exposure | Toxicity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------|------------|-----------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Silver Nitrate | 7761-88-8  | Freshwater Fish | Acute    | LC50 96 h Poecilia reticulata 0.00512 - 0.00787 mg/L [semi-static] (EPA); LC50 96 h Lepomis macrochirus 0.009 - 0.02 mg/L [flow-through] (EPA); LC50 96 h Lepomis macrochirus 0.0242 - 0.0484 mg/L [semi-static] (EPA); LC50 96 h Lepomis macrochirus 0.05 - 0.07 mg/L [static] (EPA); LC50 96 h Oncorhynchus mykiss 0.001339 - 0.001637 mg/L [flow-through] (EPA); LC50 96 h Oncorhynchus mykiss 0.0075 mg/L [semi-static] (EPA); LC50 96 h Oncorhynchus mykiss 0.00839 - 0.1802 mg/L [static] (EPA); LC50 96 h Pimephales promelas 0.00452 - 0.00638 mg/L [flow-through] (EPA); LC50 96 h Pimephales promelas 0.00181 - 0.00214 mg/L [static] (EPA); LC50 96 h Pimephales promelas 0.0064 - 0.0106 mg/L [semi-static] (EPA); LC50 96 h Pimephales promelas 0.009 mg/L (IUCLID); LC50 96 h Cyprinus carpio 0.0027 mg/L [semi-static] (EPA) |
| Silver Nitrate | 7761-88-8  | Water Flea      | Acute    | EC50 48 h Daphnia magna 0.0006 mg/L (IUCLID); EC50 48 h Daphnia magna 0.0008 - 0.001 mg/L [Flow through] (EPA); EC50 48 h Daphnia magna 0.0008 - 0.0011 mg/L [Static] (EPA)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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## 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.

## SECTION 14: Transportation Information

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

**Sizes:** 1 L

**UN Number:** UN2922

**Proper Shipping Name:** Corrosive Liquid, Toxic, n.o.s. (Nitric Acid, Phosphoric Acid, Mercuric Sulfate)

**Hazard Class:** 8 (6.1)

**Packing Group:** II

**Hazard Label(s):**



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

**Sizes:** 1 L

**UN Number:** UN2922

**Proper Shipping Name:** Corrosive Liquid, Toxic, n.o.s. (Nitric Acid, Phosphoric Acid, Mercuric Sulfate)

**Hazard Class:** 8 (6.1)

**Packing Group:** II

**Hazard Label(s):**



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

**Sizes:** 1 L

**UN Number:** UN2922

**Proper Shipping Name:** CORROSIVE LIQUID, TOXIC, N.O.S. (nitric acid, phosphoric acid, mercuric sulfate)

**Hazard Class:** 8 (6.1)

**Packing Group:** II

**Hazard Label(s):**



## SECTION 15: Regulatory Information

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

| Chemical Name  | CAS Number | Regulatory Information |
|----------------|------------|------------------------|
| No data found. |            |                        |

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

| Chemical Name | CAS Number | RQ          | TPQ              |
|---------------|------------|-------------|------------------|
| Nitric Acid   | 7697-37-2  | 1000 lb TPQ | 1000 lb EPCRA RQ |

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

| Chemical Name    | CAS Number | Regulatory Information             |
|------------------|------------|------------------------------------|
| Phosphoric Acid  | 7664-38-2  | 5000 lb final RQ; 2270 kg final RQ |
| Nitric Acid      | 7697-37-2  | 1000 lb final RQ; 454 kg final RQ  |
| Silver Nitrate   | 7761-88-8  | 1 lb final RQ; 0.454 kg final RQ   |
| Mercuric Sulfate | 7783-35-9  | 10 lb final RQ; 4.54 kg final RQ   |

## 15.04. Superfund Amendments and Reauthorization Act (SARA) 313 Toxics Release Inventory (TRI)

| Chemical Name    | CAS Number | List                         | Regulatory Information                                                                                                                                                                                                                                                                                                                                                                   |
|------------------|------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nitric Acid      | 7697-37-2  | Emission Reporting           | 1.0 % de minimis concentration                                                                                                                                                                                                                                                                                                                                                           |
| Silver Nitrate   | 7761-88-8  | Emission Reporting           | "1.0 % de minimis concentration (includes any unique chemical substance that includes Silver as part of that chemical's infrastructure, listed under Chemical Category N740)" As Silver compounds [RR-00574-3];<br>"1.0 % de minimis concentration (reportable only when in aqueous solution, listed under Chemical Category N511)" As Nitrate compounds, water dissociable [RR-03804-0] |
| Mercuric Sulfate | 7783-35-9  | Emission Reporting           | "not eligible for the de minimis exemption, listed under Chemical Category N458" As Mercury compounds [RR-00138-7]                                                                                                                                                                                                                                                                       |
| Mercuric Sulfate | 7783-35-9  | Chemicals of Special Concern | "10 lb RT" As Mercury compounds [RR-00138-7]                                                                                                                                                                                                                                                                                                                                             |

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

| Chemical Name    | CAS Number | Regulatory Information    |
|------------------|------------|---------------------------|
| Phosphoric Acid  | 7664-38-2  | Present                   |
| Nitric Acid      | 7697-37-2  | Extraordinarily hazardous |
| Silver Nitrate   | 7761-88-8  | Present                   |
| Mercuric Sulfate | 7783-35-9  | Present                   |

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

| Chemical Name    | CAS Number | Regulatory Information |
|------------------|------------|------------------------|
| Phosphoric Acid  | 7664-38-2  | Environmental hazard   |
| Nitric Acid      | 7697-37-2  | Environmental hazard   |
| Silver Nitrate   | 7761-88-8  | Environmental hazard   |
| Mercuric Sulfate | 7783-35-9  | Environmental hazard   |

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

| Chemical Name    | CAS Number | Regulatory Information |
|------------------|------------|------------------------|
| Phosphoric Acid  | 7664-38-2  | sn 1516                |
| Nitric Acid      | 7697-37-2  | sn 1356                |
| Silver Nitrate   | 7761-88-8  | sn 1672                |
| Mercuric Sulfate | 7783-35-9  | sn 1177                |

### 15.08. California Proposition 65

| Chemical Name    | CAS Number | Regulatory Information                                               |
|------------------|------------|----------------------------------------------------------------------|
| Mercuric Sulfate | 7783-35-9  | "developmental toxicity, 7/1/1990" As Mercury compounds [RR-00138-7] |

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

| Chemical Name    | CAS Number | List | Status  |
|------------------|------------|------|---------|
| Phosphoric Acid  | 7664-38-2  | DSL  | Present |
| Nitric Acid      | 7697-37-2  | DSL  | Present |
| Water            | 7732-18-5  | DSL  | Present |
| Silver Nitrate   | 7761-88-8  | DSL  | Present |
| Mercuric Sulfate | 7783-35-9  | DSL  | Present |

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

| Chemical Name    | CAS Number | Status                 |
|------------------|------------|------------------------|
| Phosphoric Acid  | 7664-38-2  | Present (ACTIVE)       |
| Nitric Acid      | 7697-37-2  | Present (ACTIVE)       |
| Water            | 7732-18-5  | Present [XU] (ACTIVE)  |
| Silver Nitrate   | 7761-88-8  | Present (ACTIVE)       |
| Mercuric Sulfate | 7783-35-9  | Present [12C] (ACTIVE) |

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

| Chemical Name    | CAS Number | List   | Number    |
|------------------|------------|--------|-----------|
| Phosphoric Acid  | 7664-38-2  | EINECS | 231-633-2 |
| Nitric Acid      | 7697-37-2  | EINECS | 231-714-2 |
| Water            | 7732-18-5  | EINECS | 231-791-2 |
| Silver Nitrate   | 7761-88-8  | EINECS | 231-853-9 |
| Mercuric Sulfate | 7783-35-9  | EINECS | 231-992-5 |

## 15.12. China - Inventory of Existing chemical Substances (IECSC)

| Chemical Name    | CAS Number | Status          |
|------------------|------------|-----------------|
| Phosphoric Acid  | 7664-38-2  | Present [22317] |
| Nitric Acid      | 7697-37-2  | Present [35578] |
| Water            | 7732-18-5  | Present [32224] |
| Silver Nitrate   | 7761-88-8  | Present [35648] |
| Mercuric Sulfate | 7783-35-9  | Present [23107] |

## 15.13. Korea - Existing Chemicals Inventory (KECI/KECL)

| Chemical Name    | CAS Number | List    | Status                                                      |
|------------------|------------|---------|-------------------------------------------------------------|
| Phosphoric Acid  | 7664-38-2  | Annex 1 | Present [KE-27427]                                          |
| Nitric Acid      | 7697-37-2  | Annex 1 | Present [KE-25911]                                          |
| Water            | 7732-18-5  | Annex 1 | Present [KE-35400]                                          |
| Silver Nitrate   | 7761-88-8  | Annex 1 | Present [KE-31281]                                          |
| Silver Nitrate   | 7761-88-8  | Annex 3 | "Present (97-1-92)" As Inorganic silver, salts [RR-04200-2] |
| Mercuric Sulfate | 7783-35-9  | Annex 1 | Present [KE-23132]                                          |
| Mercuric Sulfate | 7783-35-9  | Annex 3 | "Present (97-1-140)" As Mercury compounds [RR-00138-7]      |

## Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

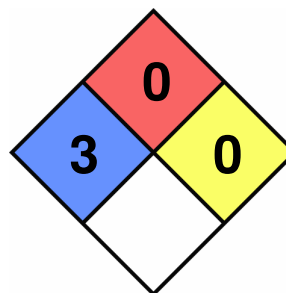
### 15.14. Japan - Existing and New Chemical Substances Inventory (ENCS)

| Chemical Name    | CAS Number | MITI No.                                         |
|------------------|------------|--------------------------------------------------|
| Phosphoric Acid  | 7664-38-2  | (1)-422                                          |
| Nitric Acid      | 7697-37-2  | (1)-394                                          |
| Water            | 7732-18-5  | - (listed on Japanese Pharmacopoeia 8th Edition) |
| Silver Nitrate   | 7761-88-8  | (1)-8                                            |
| Mercuric Sulfate | 7783-35-9  | (1)-437                                          |

## SECTION 16: Other Information

### 16.1 National Fire Protection Associate (NFPA) Rating

**Health:** 3  
**Flammability:** 0  
**Reactivity:** 0  
**Special Hazard:**



### 16.2 Document Revision

**Last Revision Date:**

2026-05-25

## 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.