

# Safety Data Sheet

Classified according to WHMIS 2015

## SECTION 1: Identification

### 1.1. Product Identifier

**Trade Name or Designation:** Bayley's Solution

**Product Number:** 908

**Other Identifying Product Numbers:** 908-32

### 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:** 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 - Oral  | Category 4 | H302              | P264, P270, P301+P312, P330, P501                        |
| Eye Damage / Irritation  | Category 2 | H319              | P264, P280, P305+P351+P338, P337+P313                    |
| Respiratory Sensitizer   | Category 1 | H334              | P261, P285, P304+P341, P342+P311, P501                   |
| Skin Sensitizer  | Category 1 | H317              | P261, P272, P280, P302+P352, P332+P313, P321, P363, P501 |
| Germ Cell Mutagenicity   | Category 1 | H340              | P201, P202, P280, P308+P313, P405, P501                  |
| Carcinogenicity  | Category 1 | H350              | P201, P202, P280, P308+P313, P405, P501                  |
| Reproductive Toxicity  | Category 1 | H360              | P201, P202, P280, P308+P313, P405, P501                  |
| Specific Target Organs/Systemic Toxicity Following Repeated Exposure | Category 1 | H372              | P260, P264, P270, P314, P501                             |
| 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**



## Safety Data Sheet

### Hazard Statements:

| Hazard Number | Hazard Statement   |
|---------------|--|
| H302          | Harmful if swallowed.  |
| H317          | May cause an allergic skin reaction.                                       |
| H319          | Causes serious eye irritation.   |
| H334          | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H340          | May cause genetic defects.   |
| H350          | May cause cancer.  |
| H360          | May damage fertility or the unborn child.                                  |
| H372          | Causes damage to organs through prolonged or repeated exposure.            |
| H401          | Toxic to aquatic life.   |
| H411          | Toxic to aquatic life with long lasting effects.                           |

# Safety Data Sheet

## 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.  |
| 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.   |
| P270                 | Do not eat, drink or smoke when using this product.  |
| 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+P312            | IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell.  |
| P302+P352            | IF ON SKIN: Wash with plenty of soap and water.  |
| P304+P341            | IF INHALED: If breathing is difficult, 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.  |
| P314                 | Get medical attention if you feel unwell.  |
| P321                 | Specific treatment (Wash areas of contact with water immediately).   |
| P330                 | Rinse mouth.   |
| P332+P313            | If skin irritation occurs: Get medical attention.  |
| P337+P313            | If eye irritation persists: Get medical attention.   |
| P342+P311            | If experiencing respiratory symptoms: Call a POISON CENTER or physician.   |
| P363                 | Wash contaminated clothing before reuse.   |
| P391                 | Collect spillage.  |
| P405                 | Store locked up.   |
| 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 <sub>2</sub> O                              | 18.01 g/mol      | 7732-18-5  | 97.06   |
| Potassium Dichromate | K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> | 294.18 g/mol     | 7778-50-9  | 1.47    |
| Mercuric Chloride    | HgCl <sub>2</sub>                             | 271.49 g/mol     | 7487-94-7  | 1.47    |

### 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: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

**Skin Contact:** IF ON SKIN: Wash with plenty of soap and water. May cause irritation, redness, and pain.

**Ingestion:** IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Dilute immediately with water or milk. Induce vomiting. Call a physician.

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

Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause genetic defects. May cause cancer. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. **WARNING!** Harmful if swallowed. This product is toxic. Contains a Hexavalent Chromium compound, which is a known carcinogen. Avoid ingestion or contact with skin, eyes, or clothing. If ingested, dilute with water and induce vomiting. Call a physician. Wash areas of contact with plenty of water. For eyes, get medical attention. **EYE CONTACT:** May cause irritation, redness, pain, and tearing. **SKIN CONTACT:** May cause irritation, redness, and pain. **CHRONIC EFFECTS / CARCINOGENICITY:** Chronic poisoning can lead to liver damage.

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

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. Immediately flush with plenty of water for at least 15 minutes. Remove any contaminated clothing. Wash with soap and water, then flush again with water. Call a physician if irritation develops. Dilute immediately with water or milk. Induce vomiting. Call a physician.

### SECTION 5: Fire-Fighting Measures

#### 5.1. Extinguishing Media

Use any means suitable for extinguishing surrounding fire (Water, water spray, foam, or dry chemical). If using water, do not allow water run off to enter sewer.

## Safety Data Sheet

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

Not considered to be a fire or explosion hazard.

### 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 locked up. As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. Store at room temperature.

## Safety Data Sheet

### SECTION 8: Exposure Controls / Personal Protection

#### 8.1 Control Parameters

| Chemical Name                    | Limit Type | Country | Exposure Limit   | Information Source   |
|----------------------------------|------------|---------|--|--|
| Mercuric Chloride (7487-94-7)    | TLV-TWA    | USA     | "0.025 mg/m <sup>3</sup> TWA (as Hg)"<br>As Mercury inorganic forms<br>[RR-00569-6]  | ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)      |
| Mercuric Chloride (7487-94-7)    | TLV-TWA    | USA     | "0.025 mg/m <sup>3</sup> TWA (as Hg)"<br>As Mercury inorganic forms<br>[RR-00569-6]  | ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)      |
| Mercuric Chloride (7487-94-7)    | TLV-TWA    | USA     | 0.025 mg/m <sup>3</sup> TWA (as Hg)  | ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)      |
| Mercuric Chloride (7487-94-7)    | TLV-TWA    | USA     | "0.025 mg/m <sup>3</sup> TWA (as Hg)"<br>As Mercury inorganic forms<br>[RR-00569-6]  | ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)      |
| Mercuric Chloride (7487-94-7)    | TLV-TWA    | USA     | "0.025 mg/m <sup>3</sup> TWA (as Hg)"<br>As Mercury inorganic forms<br>[RR-00569-6]  | ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)      |
| Potassium Dichromate (7778-50-9) | PEL        | USA     | "5 µg/m <sup>3</sup> TWA (See 29 CFR 1910.1026, as Cr); 2.5 µg/m <sup>3</sup> Action Level (as Cr)"<br>As Chromium(VI)<br>compounds [RR-00026-0]               | U.S. - OSHA - Specifically Regulated Chemicals with PELs               |
| Potassium Dichromate (7778-50-9) | TWA        | USA     | "5 µg/m <sup>3</sup> TWA" As<br>Chromium(VI) compounds<br>[RR-00026-0]   | U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)               |
| Potassium Dichromate (7778-50-9) | TLV-STEL   | USA     | "0.0005 mg/m <sup>3</sup> STEL<br>(inhalable particulate<br>matter, as Cr(VI))" As<br>Hexavalent chromium<br>inorganic water-soluble<br>compounds [RR-53130-6] | ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL) |
| Potassium Dichromate (7778-50-9) | TLV-TWA    | USA     | "0.0002 mg/m <sup>3</sup> TWA<br>(inhalable particulate<br>matter, as Cr(VI))" As<br>Hexavalent chromium<br>inorganic water-soluble<br>compounds [RR-53130-6]  | ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)      |

## Safety Data Sheet

|                                  |             |     |  |  |
|----------------------------------|-------------|-----|--|--|
| Potassium Dichromate (7778-50-9) | PEL-Ceiling | USA | "0.1 mg/m <sup>3</sup> Ceiling (applies to any operations or sectors for which the Hexavalent Chromium standard [29 CFR 1910.1026] is stayed or is otherwise not in effect, as CrO <sub>3</sub> )" As Chromates [RR-01554-3] | U.S. - OSHA - Final PELs - Ceiling Limits                |
| Potassium Dichromate (7778-50-9) | TWA         | USA | "5 µg/m <sup>3</sup> TWA" As Chromium(VI) compounds [RR-00026-0]   | U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs) |
| Potassium Dichromate (7778-50-9) | PEL         | USA | "5 µg/m <sup>3</sup> TWA (See 29 CFR 1910.1026, as Cr); 2.5 µg/m <sup>3</sup> Action Level (as Cr)" As Chromium(VI) compounds [RR-00026-0]   | U.S. - OSHA - Specifically Regulated Chemicals with PELs |
| Potassium Dichromate (7778-50-9) | PEL         | USA | 5 µg/m <sup>3</sup> TWA (See 29 CFR 1910.1026, as Cr); 2.5 µg/m <sup>3</sup> Action Level (as Cr)  | U.S. - OSHA - Specifically Regulated Chemicals with PELs |
| Potassium Dichromate (7778-50-9) | TWA         | USA | 5 µg/m <sup>3</sup> TWA  | U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs) |
| Potassium Dichromate (7778-50-9) | PEL-Ceiling | USA | 0.1 mg/m <sup>3</sup> Ceiling (applies to any operations or sectors for which the Hexavalent Chromium standard [29 CFR 1910.1026] is stayed or is otherwise not in effect, as CrO <sub>3</sub> )                             | U.S. - OSHA - Final PELs - Ceiling Limits                |
| Potassium Dichromate (7778-50-9) | TWA         | USA | "5 µg/m <sup>3</sup> TWA" As Chromium(VI) compounds [RR-00026-0]   | U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs) |
| Potassium Dichromate (7778-50-9) | PEL         | USA | "5 µg/m <sup>3</sup> TWA (See 29 CFR 1910.1026, as Cr); 2.5 µg/m <sup>3</sup> Action Level (as Cr)" As Chromium(VI) compounds [RR-00026-0]   | U.S. - OSHA - Specifically Regulated Chemicals with PELs |
| Potassium Dichromate (7778-50-9) | PEL         | USA | "5 µg/m <sup>3</sup> TWA (See 29 CFR 1910.1026, as Cr); 2.5 µg/m <sup>3</sup> Action Level (as Cr)" As Chromium(VI) compounds [RR-00026-0]   | U.S. - OSHA - Specifically Regulated Chemicals with PELs |



## Safety Data Sheet

|                                  |          |     |  |  |
|----------------------------------|----------|-----|--|--|
| Potassium Dichromate (7778-50-9) | TWA      | USA | "5 µg/m³ TWA" As Chromium(VI) compounds [RR-00026-0]   | U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)               |
| Potassium Dichromate (7778-50-9) | PEL      | USA | "5 µg/m³ TWA (See 29 CFR 1910.1026, as Cr); 2.5 µg/m³ Action Level (as Cr)" As Chromium(VI) compounds [RR-00026-0] | U.S. - OSHA - Specifically Regulated Chemicals with PELs               |
| Potassium Dichromate (7778-50-9) | TWA      | USA | "5 µg/m³ TWA" As Chromium(VI) compounds [RR-00026-0]   | U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)               |
| Potassium Dichromate (7778-50-9) | TLV-TWA  | USA | 0.0002 mg/m³ TWA (inhalable particulate matter, as Cr(VI))   | ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)      |
| Potassium Dichromate (7778-50-9) | TLV-STEL | USA | 0.0005 mg/m³ STEL (inhalable particulate matter, as Cr(VI))  | ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL) |

### 8.2. Exposure Controls

**Engineering Controls:** 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.

# Safety Data Sheet

## SECTION 9: Physical and Chemical Properties

### 9.1. Basic Physical and Chemical Properties

**Appearance:** Orange liquid

**Physical State:** Liquid

**Odor:** Data not available.

**Odor Threshold:** Data not available.

**pH:** Data not available.

**Melting/Freezing Point:** Approximately 0°C

**Initial Boiling Point/Range:** Approximately 101°C - Approximately 101°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

Reducing Agents, Acetone plus Sulfuric Acid, Boron plus Silicon, Ethylene Glycol, Iron, Hydrazine, and Hydroxylamine. Any combustible organic or other readily oxidizable material (paper, wood, sulfur, aluminum, or plastics).

## Safety Data Sheet

### 10.4. Hazardous Decomposition Products

Will not occur.

## SECTION 11: Toxicological Information

### 11.1. Information on Toxicological Effects

#### Acute Toxicity - Oral Exposure:

Harmful if swallowed. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. Dispose of contents in accordance with local, state, federal and international regulations.

#### Acute Toxicity - Dermal Exposure:

Not applicable.

#### Acute Toxicity - Inhalation Exposure:

Not applicable.

#### Acute Toxicity - Other Information:

LD50, Oral, Rat: (Mercuric Chloride) 1 mg/kg, details of toxic effects not reported other than lethal dose value. LD50, Oral, Rat: (Potassium Dichromate) 25 mg/kg, Behavioral and sensory effects noted. LD50, Dermal, Rabbit: (Potassium Dichromate) 14 mg/kg, respiratory, gastrointestinal and skin effects noted.

#### Skin Corrosion and Irritation:

Not applicable.

#### Serious Eye Damage and Irritation:

Causes serious eye irritation. Wash arms, hands and face thoroughly after handling. 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. If eye irritation persists: Get medical attention.

#### Respiratory Sensitization:

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Avoid breathing fumes, mist, vapors, or spray. In case of inadequate ventilation wear respiratory protection. IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or physician. Dispose of contents in accordance with local, state, federal and international regulations.

#### 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:

May cause genetic defects. 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.

## Safety Data Sheet

**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:**

May damage fertility or the unborn child. 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.

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

Not applicable.

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

Causes damage to organs through prolonged or repeated exposure. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Get medical attention if you feel unwell. Dispose of contents in accordance with local, state, federal and international regulations.

**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.

## Safety Data Sheet

### SECTION 14: Transportation Information

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

**Sizes:** 1 L

**UN Number:** UN3287

**Proper Shipping Name:** Toxic Liquid, Inorganic, n.o.s. (Mercuric Chloride, Potassium Dichromate)

**Hazard Class:** 6.1

**Packing Group:** II

**Hazard Label(s):**



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

**Sizes:** 1 L

**UN Number:** UN3287

**Proper Shipping Name:** Toxic Liquid, Inorganic, n.o.s. (Mercuric Chloride, Potassium Dichromate)

**Hazard Class:** 6.1

**Packing Group:** II

**Hazard Label(s):**



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

**Sizes:** 1 L

**UN Number:** UN3287

**Proper Shipping Name:** TOXIC LIQUID, INORGANIC, N.O.S. (mercuric chloride, potassium dichromate)

**Hazard Class:** 6.1

**Packing Group:** II

**Hazard Label(s):**



## Safety Data Sheet

### SECTION 15: Regulatory Information

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

Potassium Dichromate (CAS # 7778-50-9): "5 µg/m<sup>3</sup> TWA (See 29 CFR 1910.1026, as Cr); 2.5 µg/m<sup>3</sup> Action Level (as Cr)" As Chromium(VI) compounds [RR-00026-0]

Potassium Dichromate (CAS # 7778-50-9): 5 µg/m<sup>3</sup> TWA (See 29 CFR 1910.1026, as Cr); 2.5 µg/m<sup>3</sup> Action Level (as Cr)

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

Mercuric Chloride (CAS # 7487-94-7): 500 lb EPCRA RQ

Mercuric Chloride (CAS # 7487-94-7): 500 lb lower TPQ; 10000 lb upper TPQ

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

Potassium Dichromate (CAS # 7778-50-9): 10 lb final RQ; 4.54 kg final RQ

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

Mercuric Chloride (CAS # 7487-94-7): "1.0 % Supplier notification limit (includes any unique chemical substance that contains Mercury as part of that chemical's infrastructure, listed under Chemical Category N458)" As Mercury compounds [RR-00138-7]

Mercuric Chloride (CAS # 7487-94-7): "10 lb RT" As Mercury compounds [RR-00138-7]

Mercuric Chloride (CAS # 7487-94-7): 1.0 % Supplier notification limit (includes any unique chemical substance that contains Mercury as part of that chemical's infrastructure, listed under Chemical Category N458)

Mercuric Chloride (CAS # 7487-94-7): 10 lb RT

Potassium Dichromate (CAS # 7778-50-9): "0.1 % de minimis concentration (includes any unique chemical substance that contains Chromium as part of that chemical's infrastructure except for Chromite ore mined in the Transvaal Region of South Africa and the unreacted ore component of the Chromite ore processing residue (COPR), no de minimis concentration has been assigned to this chemical category, listed under Chemical Category N090)" As Chromium(VI) compounds [RR-00026-0]

Potassium Dichromate (CAS # 7778-50-9): 0.1 % de minimis concentration (includes any unique chemical substance that contains Chromium as part of that chemical's infrastructure except for Chromite ore mined in the Transvaal Region of South Africa and the unreacted ore component of the Chromite ore processing residue (COPR), no de minimis concentration has been assigned to this chemical category, listed under Chemical Category N090)

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

Mercuric Chloride (CAS # 7487-94-7): Extraordinarily hazardous

Potassium Dichromate (CAS # 7778-50-9): Present

## Safety Data Sheet

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

Mercuric Chloride (CAS # 7487-94-7): "Environmental hazard" As Mercury compounds [RR-00138-7]

Mercuric Chloride (CAS # 7487-94-7): "Environmental hazard" As Mercury compounds [RR-00138-7];

"Environmental hazard" As Mercury inorganic compounds [RR-00569-6]

Mercuric Chloride (CAS # 7487-94-7): "Present" As Mercury compounds [RR-00138-7]

Mercuric Chloride (CAS # 7487-94-7): "Present" As Mercury compounds [RR-00138-7];

"Present" As Mercury inorganic compounds [RR-00569-6]

Mercuric Chloride (CAS # 7487-94-7): Environmental hazard

Mercuric Chloride (CAS # 7487-94-7): Present

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

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

Potassium Dichromate (CAS # 7778-50-9): "Environmental hazard" As Chromium compounds [RR-00634-8]

Potassium Dichromate (CAS # 7778-50-9): "Environmental hazard" As Chromium compounds [RR-00634-8];

"Present (also regulated under Dichromates)" As Bichromates [RR-01620-6]

Potassium Dichromate (CAS # 7778-50-9): "Environmental hazard; Special hazardous substance" As Chromium compounds, hexavalent [RR-00026-0];

"Environmental hazard" As Chromium compounds [RR-00634-8]

Potassium Dichromate (CAS # 7778-50-9): "Present" As Chromium compounds [RR-00634-8]

Potassium Dichromate (CAS # 7778-50-9): "Present" As Chromium compounds, hexavalent [RR-00026-0]

Potassium Dichromate (CAS # 7778-50-9): "Present" As Chromium compounds, hexavalent [RR-00026-0];

"Present" As Chromium compounds [RR-00634-8]

Potassium Dichromate (CAS # 7778-50-9): Environmental hazard

Potassium Dichromate (CAS # 7778-50-9): Environmental hazard; Special hazardous substance

Potassium Dichromate (CAS # 7778-50-9): Present

Potassium Dichromate (CAS # 7778-50-9): Present (also regulated under Dichromates)



## Safety Data Sheet

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

Mercuric Chloride (CAS # 7487-94-7): "corrosive" As Mercury inorganic compounds [RR-00569-6]  
 Mercuric Chloride (CAS # 7487-94-7): "sn 1183" As Mercury inorganic compounds [RR-00569-6]  
 Mercuric Chloride (CAS # 7487-94-7): "SN 2414 500 lb TPQ (Category Code N458. Includes any unique chemical substance that contains the named metal as part of that chemical structure)" As Mercury compounds [RR-00138-7]  
 Mercuric Chloride (CAS # 7487-94-7): carcinogen; mutagen  
 Mercuric Chloride (CAS # 7487-94-7): corrosive  
 Mercuric Chloride (CAS # 7487-94-7): sn 1170  
 Mercuric Chloride (CAS # 7487-94-7): SN 1170 500 lb TPQ  
 Mercuric Chloride (CAS # 7487-94-7): sn 1183  
 Mercuric Chloride (CAS # 7487-94-7): SN 2414 500 lb TPQ (Category Code N458. Includes any unique chemical substance that contains the named metal as part of that chemical structure)  
 Potassium Dichromate (CAS # 7778-50-9): "carcinogen" As Chromium(VI) compounds [RR-00026-0]  
 Potassium Dichromate (CAS # 7778-50-9): "SN 2245 500 lb TPQ (Category Code N090. Includes any unique chemical substance that contains the named metal as part of that chemical structure)" As Chromium compounds [RR-00634-8]  
 Potassium Dichromate (CAS # 7778-50-9): "sn 2245" As Chromium compounds [RR-00634-8]  
 Potassium Dichromate (CAS # 7778-50-9): "sn 3575" As Chromium(VI) compounds [RR-00026-0];  
 "sn 2245" As Chromium compounds [RR-00634-8]  
 Potassium Dichromate (CAS # 7778-50-9): carcinogen  
 Potassium Dichromate (CAS # 7778-50-9): carcinogen; mutagen  
 Potassium Dichromate (CAS # 7778-50-9): sn 1564  
 Potassium Dichromate (CAS # 7778-50-9): sn 2245  
 Potassium Dichromate (CAS # 7778-50-9): SN 2245 500 lb TPQ (Category Code N090. Includes any unique chemical substance that contains the named metal as part of that chemical structure)  
 Potassium Dichromate (CAS # 7778-50-9): sn 3575

### 15.8. California Proposition 65

Mercuric Chloride (CAS # 7487-94-7): "developmental toxicity, 7/1/1990" As Mercury compounds [RR-00138-7]  
 Mercuric Chloride (CAS # 7487-94-7): developmental toxicity, 7/1/1990  
 Potassium Dichromate (CAS # 7778-50-9): "carcinogen, 2/27/1987" As Chromium hexavalent compounds [RR-00026-0]  
 Potassium Dichromate (CAS # 7778-50-9): "developmental toxicity, 12/19/2008" As Chromium(VI) compounds [RR-00026-0]  
 Potassium Dichromate (CAS # 7778-50-9): "female reproductive toxicity 12/19/08" As Chromium hexavalent compounds [RR-00026-0]  
 Potassium Dichromate (CAS # 7778-50-9): "male reproductive toxicity, 12/19/08" As Chromium hexavalent compounds [RR-00026-0]  
 Potassium Dichromate (CAS # 7778-50-9): carcinogen, 2/27/1987  
 Potassium Dichromate (CAS # 7778-50-9): developmental toxicity, 12/19/2008  
 Potassium Dichromate (CAS # 7778-50-9): female reproductive toxicity 12/19/08  
 Potassium Dichromate (CAS # 7778-50-9): male reproductive toxicity, 12/19/08

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

Mercuric Chloride (CAS # 7487-94-7): Present (DSL)  
 Water (CAS # 7732-18-5): Present (DSL)  
 Potassium Dichromate (CAS # 7778-50-9): Present (DSL)



## Safety Data Sheet

### 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.

Mercuric Chloride (CAS # 7487-94-7): Present (ACTIVE)

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

Potassium Dichromate (CAS # 7778-50-9): Present [R] (ACTIVE)

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

Mercuric Chloride (CAS # 7487-94-7): 231-299-8

Water (CAS # 7732-18-5): 231-791-2

Potassium Dichromate (CAS # 7778-50-9): 231-906-6

## SECTION 16: Other Information

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

Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause genetic defects. May cause cancer. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. 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. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. 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: Call a POISON CENTER or physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: If breathing is difficult, 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. Get medical attention if you feel unwell. Specific treatment (Wash areas of contact with water immediately). Rinse mouth. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. If experiencing respiratory symptoms: Call a POISON CENTER or physician. Wash contaminated clothing before reuse. Collect spillage.

Store locked up.

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

## Safety Data Sheet

### 16.2. Miscellaneous Hazard Classes

**Canadian Carcinogenicity Hazard Class:** Not Applicable.

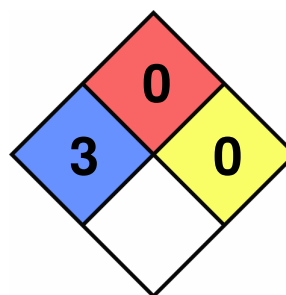
**Physical Hazards Not Otherwise Classified (PHNOC):** Not Applicable.

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

**Biohazardous Infectious Materials Hazard Class:** Not Applicable.

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

**Health:** 3  
**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.