



## Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

### SECTION 1: Identification

#### 1.1. Product Identifier

**Trade Name or Designation** Matching Fluid B, USP - for Color and Achromaticity

**Product Number** 4621.B

**Other Identifying Product Numbers** 4621.B-16

#### 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                                |
|-----------------------------------------------------------|------------|-------------------|---------------------------------------------------------|
| Skin Corrosion / Irritation                               | Category 2 | H315              | P264,P280,P302+P352,P321, P332+P313,P362+P364           |
| Serious Eye Damage / Eye Irritation                       | Category 2 | H319              | P264,P280,P305+P351+P338, P337+P313                     |
| Respiratory Sensitization                                 | Category 1 | H334              | P261,P284,P304+P340,P342+P311, P501                     |
| Skin Sensitization                                        | Category 1 | H317              | P261,P272,P280,P302+P352, P333+P313,P321,P362+P364,P501 |
| Carcinogenicity                                           | Category 2 | H351              | P201,P202,P280,P308+P313,P405, 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.

| Hazard Number | Hazard Statement                                                          |
|---------------|---------------------------------------------------------------------------|
| H315          | Causes skin irritation                                                    |
| H317          | May cause an allergic skin reaction                                       |
| H319          | Causes serious eye irritation                                             |
| H334          | May cause allergy or asthma symptoms or breathing difficulties if inhaled |
| H351          | Suspected of causing cancer                                               |
| 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                                                   |
|----------------------|---------------------------------------------------------------------------|
| P201                 | Obtain special instructions before use.                                   |
| P202                 | Do not handle until all safety precautions have been read and understood. |
| P261                 | Avoid breathing fumes or mist.                                            |
| P264                 | Wash hands, arms, and face thoroughly after handling.                     |
| 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.                                |
| P284                 | In case of inadequate ventilation wear respiratory protection.            |

## Response

| Precautionary Number | Precautionary Statement                                                                                                          |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------|
| P302+P352            | IF ON SKIN: Wash with plenty of 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 advice or attention.                                                                        |
| P337+P313            | If eye irritation persists: Get medical advice or attention.                                                                     |
| P342+P311            | If experiencing respiratory symptoms: Call a poison center or doctor.                                                            |
| P362+P364            | Take off contaminated clothing and wash it before reuse.                                                                         |
| P391                 | Collect spillage.                                                                                                                |

## Storage

| Precautionary Number | Precautionary Statement |
|----------------------|-------------------------|
| 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.

## 2.4. Ingredients of Unknown Acute Toxicity

1.2 percent of this mixture consists of ingredient(s) of unknown acute dermal toxicity.

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### 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  | 98.11   |
| iron(III) chloride hexahydrate    | Ferric Chloride Hexahydrate; iron trichloride hexahydrate                 | 10025-77-1 | 0.83    |
| copper sulfate pentahydrate       | Copper Sulfate Pentahydrate; Sulfuric acid, copper(2+) salt, pentahydrate | 7758-99-8  | 0.38    |
| cobalt(2+) dichloride hexahydrate | Cobalt (II) Chloride Hexahydrate; Cobaltous chloride hexahydrate          | 7791-13-1  | 0.36    |
| chlorane                          | Hydrochloric Acid; Muriatic acid                                          | 7647-01-0  | 0.33    |

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

**Ingestion:** Dilute immediately with water or milk. Induce vomiting. Call a physician.

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

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

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

Suspected of causing cancer Contains Cobalt Chloride, a possible carcinogen according to IARC (International Agency for Research on Cancer). Mildly corrosive. Irritating to the eyes and skin. Wash areas of contact with water. If ingested, dilute with water. Call a physician if necessary. EYE CONTACT: May cause irritation, redness, pain, and tearing. SKIN CONTACT: May cause irritation, redness, and pain. CHRONIC EFFECTS / CARCINOGENICITY: Repeated ingestion of large doses may cause liver damage.

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

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 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.

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

Not considered to be a fire or explosion hazard.

## 5.3. Special Protective Equipment and Precautions 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.

### 6.2. Cleanup and Containment Methods and Materials

Absorb with suitable material and dispose of in accordance with local regulations. Check local regulations for the proper disposal of iron containing products.

## 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.

## 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)

No limits found.

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

| Chemical Name     | CAS Number | Exposure Limit                             |
|-------------------|------------|--------------------------------------------|
| Hydrochloric Acid | 7647-01-0  | 5 ppm Ceiling; 7 mg/m <sup>3</sup> Ceiling |

### 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)

| Chemical Name     | CAS Number | Exposure Limit |
|-------------------|------------|----------------|
| Hydrochloric Acid | 7647-01-0  | 2 ppm Ceiling  |

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

No limits found.

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

| Chemical Name                    | CAS Number | Exposure Limit                                                                                                |
|----------------------------------|------------|---------------------------------------------------------------------------------------------------------------|
| Ferric Chloride Hexahydrate      | 10025-77-1 | "1 mg/m <sup>3</sup> TWA (as Fe)" As Iron salts, soluble [RR-00521-0]                                         |
| Copper Sulfate Pentahydrate      | 7758-99-8  | "1 mg/m <sup>3</sup> TWA (dust and mist, as Cu)" As Copper compounds [RR-00595-8]                             |
| Cobalt (II) Chloride Hexahydrate | 7791-13-1  | "0.02 mg/m <sup>3</sup> TWA (inhalable particulate matter, as Co)" As Cobalt inorganic compounds [RR-02516-1] |

## 8.2. Engineering Controls

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>                                     | Light yellow-brown  |
| <b>Odor:</b>                                      | Data not available. |
| <b>Odor Threshold:</b>                            | Data not available. |
| <b>Melting/Freezing Point:</b>                    | 0.0°C               |
| <b>Boiling Point/Range:</b>                       | 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>                          | 1.0                 |
| <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

Strong Oxidizers, Alkalies.

### 10.4. Hazardous Decomposition Products

Will not occur.

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### SECTION 11: Toxicological Information

#### 11.1. Information on Toxicological Effects

##### Acute Toxicity - Oral Exposure:

Not acutely toxic.

| Chemical Name                    | CAS Number | Toxicity                                        |
|----------------------------------|------------|-------------------------------------------------|
| Ferric Chloride Hexahydrate      | 10025-77-1 | Oral LD50 Rat 750 mg/kg (Source: Canada_WHMIS)  |
| Hydrochloric Acid                | 7647-01-0  | Oral LD50 Rat 700 mg/kg (Source: Canada_WHMIS)  |
| Copper Sulfate Pentahydrate      | 7758-99-8  | Oral LD50 Rat 794 mg/kg (Source: Canada_WHMIS)  |
| Cobalt (II) Chloride Hexahydrate | 7791-13-1  | Oral LD50 Rat 161.1mg/kg (Source: Canada_WHMIS) |

##### Acute Toxicity - Dermal Exposure:

No information found.

| Chemical Name               | CAS Number | Toxicity                                           |
|-----------------------------|------------|----------------------------------------------------|
| Hydrochloric Acid           | 7647-01-0  | Dermal LD50 Rabbit >5010 mg/kg (Source: JAPAN_GHS) |
| Copper Sulfate Pentahydrate | 7758-99-8  | Dermal LD50 Rabbit >8 g/kg (Source: NLM_HSDB)      |

##### Acute Toxicity - Inhalation Exposure:

Not acutely toxic.

| Chemical Name               | CAS Number | Toxicity                                                                    |
|-----------------------------|------------|-----------------------------------------------------------------------------|
| Ferric Chloride Hexahydrate | 10025-77-1 | Inhalation LC50 Acute Toxicity Estimate 0.5 mg/L 4 h (Source: Canada_WHMIS) |
| Hydrochloric Acid           | 7647-01-0  | Inhalation LC50 Acute Toxicity Estimate 0.5 mg/L 4 h (Source: ECHA)         |

#### 11.2 Carcinogenicity:

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

| Chemical Name                    | CAS Number | Classification                                                                                                                          |
|----------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Hydrochloric Acid                | 7647-01-0  | Group 1 (Carcinogenic to Humans) - Monograph 100F [2012]; Monograph 54 [1992] As Acid mists, strong inorganic                           |
| Cobalt (II) Chloride Hexahydrate | 7791-13-1  | Group 2A (Probably Carcinogenic to Humans) - Monograph 131 [2023]; Monograph 86 [2006]; Monograph 52 [1991] As Cobalt(II) soluble salts |

##### National Toxicology Program (NTP)

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| Chemical Name                    | CAS Number | Classification                                                                                                                                                                                                                                                          |
|----------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cobalt (II) Chloride Hexahydrate | 7791-13-1  | "Reasonably Anticipated To Be A Human Carcinogen (listed under Cobalt-related exposures)" As Cobalt chloride (CoCl <sub>2</sub> ) [7646-79-9];<br>"Reasonably Anticipated To Be A Human Carcinogen (that release cobalt ions in vivo)" As Cobalt compounds [RR-00107-0] |

## U.S. OSHA specifically regulated carcinogens

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

## 11.3 Additional Toxicology Information:

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing cancer.

## SECTION 12: Ecological Information

### 12.1. Ecotoxicity

| Chemical Name                    | CAS Number | Species         | Exposure | Toxicity                                                                                                                                                                                                                                                                                                                          |
|----------------------------------|------------|-----------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ferric Chloride Hexahydrate      | 10025-77-1 | Freshwater Fish | Acute    | "LC50 96 h Lepomis macrochirus 20.26 mg/L [semi-static] (EPA); LC50 96 h Pimephales promelas 20.95 - 22.56 mg/L [semi-static] (EPA)" As Ferric chloride [7705-08-0]                                                                                                                                                               |
| Copper Sulfate Pentahydrate      | 7758-99-8  | Freshwater Fish | Acute    | LC50 96 h Lepomis macrochirus 0.66 - 1.15 mg/L [semi-static] (EPA); LC50 96 h Lepomis macrochirus 0.96 - 1.8 mg/L [static] (EPA); LC50 96 h Oncorhynchus mykiss 0.1478 - 0.165 mg/L [flow-through] (EPA); LC50 96 h Oncorhynchus mykiss 0.09 - 0.19 mg/L [static] (EPA); LC50 96 h Pimephales promelas 0.6752 mg/L [static] (EPA) |
| Ferric Chloride Hexahydrate      | 10025-77-1 | Water Flea      | Acute    | "EC50 48 h Daphnia magna 27.9 mg/L (IUCLID); EC50 48 h Daphnia magna 9.6 mg/L [Static] (EPA)" As Ferric chloride [7705-08-0]                                                                                                                                                                                                      |
| Copper Sulfate Pentahydrate      | 7758-99-8  | Water Flea      | Acute    | EC50 48 h Daphnia magna 0.147 - 0.227 mg/L [Static] (EPA)                                                                                                                                                                                                                                                                         |
| Cobalt (II) Chloride Hexahydrate | 7791-13-1  | Water Flea      | Chronic  | "NOEC 21 d Daphnia magna 60.8 µg/L [semi-static] (reproduction, ECHA_API)" As Cobalt chloride (CoCl <sub>2</sub> ) [7646-79-9]                                                                                                                                                                                                    |

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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)

Not regulated according to DOT regulations.



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

Not regulated according to IATA Dangerous Goods Regulations.

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

Not regulated according to TDG regulations.

## 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                         |
|-------------------|------------|-----------------------|-----------------------------|
| Hydrochloric Acid | 7647-01-0  | 500 lb TPQ (gas only) | 5000 lb EPCRA RQ (gas only) |

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

| Chemical Name               | CAS Number | Regulatory Information                                             |
|-----------------------------|------------|--------------------------------------------------------------------|
| Ferric Chloride Hexahydrate | 10025-77-1 | "1000 lb final RQ; 454 kg final RQ" As Ferric chloride [7705-08-0] |
| Hydrochloric Acid           | 7647-01-0  | 5000 lb final RQ; 2270 kg final RQ                                 |
| Copper Sulfate Pentahydrate | 7758-99-8  | "10 lb final RQ; 4.54 kg final RQ" As Cupric sulfate [7758-98-7]   |

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

| Chemical Name                    | CAS Number | List               | Regulatory Information                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------|------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hydrochloric Acid                | 7647-01-0  | Emission Reporting | 1.0 % de minimis concentration (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size)                                                                                                                                                                                                                                                                                                                       |
| Copper Sulfate Pentahydrate      | 7758-99-8  | Emission Reporting | "1.0 % de minimis concentration (includes any unique chemical substance that contains Copper as part of that chemical's infrastructure except for CAS numbers 147-14-8, 1328-53-6, or 14302-13-7, or copper phthalocyanine compounds that are substituted with only Hydrogen and/or Bromine and/or Chlorine that meet the molecular structure specified within the regulation, listed under Chemical Category N100)" As Copper compounds [RR-00595-8] |
| Cobalt (II) Chloride Hexahydrate | 7791-13-1  | Emission Reporting | "0.1 % de minimis concentration (includes any unique chemical substance that contains Cobalt as part of that chemical's infrastructure, listed under Chemical Category N096)" As Cobalt, inorganic compounds [RR-02516-1]                                                                                                                                                                                                                             |

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

| Chemical Name               | CAS Number | Regulatory Information                   |
|-----------------------------|------------|------------------------------------------|
| Ferric Chloride Hexahydrate | 10025-77-1 | "Present" As Ferric chloride [7705-08-0] |
| Hydrochloric Acid           | 7647-01-0  | Extraordinarily hazardous                |
| Copper Sulfate Pentahydrate | 7758-99-8  | "Present" As Cupric sulfate [7758-98-7]  |

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

| Chemical Name                    | CAS Number | Regulatory Information                                                                                                                 |
|----------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Ferric Chloride Hexahydrate      | 10025-77-1 | "Environmental hazard" As Iron chloride (FeCl <sub>3</sub> ) [7705-08-0];<br>"Environmental hazard" As Iron salts [RR-04647-9]         |
| Hydrochloric Acid                | 7647-01-0  | Environmental hazard                                                                                                                   |
| Copper Sulfate Pentahydrate      | 7758-99-8  | "Environmental hazard" As Sulfuric acid, copper(2+) salt (1:1) [7758-98-7];<br>"Environmental hazard" As Copper compounds [RR-00595-8] |
| Cobalt (II) Chloride Hexahydrate | 7791-13-1  | "Environmental hazard" As Cobalt compounds [RR-00107-0]                                                                                |

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

| Chemical Name                    | CAS Number | Regulatory Information                                                                 |
|----------------------------------|------------|----------------------------------------------------------------------------------------|
| Ferric Chloride Hexahydrate      | 10025-77-1 | "sn 1034" As Iron chloride [7705-08-0]                                                 |
| Hydrochloric Acid                | 7647-01-0  | sn 1012                                                                                |
| Copper Sulfate Pentahydrate      | 7758-99-8  | "sn 0549" As Cupric sulfate [7758-98-7];<br>"sn 2215" As Copper compounds [RR-00595-8] |
| Cobalt (II) Chloride Hexahydrate | 7791-13-1  | "sn 2222" As Cobalt compounds [RR-00107-0]                                             |

### 15.08. California Proposition 65

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

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

| Chemical Name                    | CAS Number | List | Status                                      |
|----------------------------------|------------|------|---------------------------------------------|
| Ferric Chloride Hexahydrate      | 10025-77-1 | DSL  | "Present" As Ferric chloride [7705-08-0]    |
| Hydrochloric Acid                | 7647-01-0  | DSL  | Present                                     |
| Water                            | 7732-18-5  | DSL  | Present                                     |
| Copper Sulfate Pentahydrate      | 7758-99-8  | DSL  | "Present" As Cupric sulfate [7758-98-7]     |
| Cobalt (II) Chloride Hexahydrate | 7791-13-1  | DSL  | "Present" As Cobaltous chloride [7646-79-9] |

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

| Chemical Name                    | CAS Number | Status                                                                 |
|----------------------------------|------------|------------------------------------------------------------------------|
| Ferric Chloride Hexahydrate      | 10025-77-1 | "Present (ACTIVE)" As Iron chloride (FeCl <sub>3</sub> ) [7705-08-0]   |
| Hydrochloric Acid                | 7647-01-0  | Present (ACTIVE)                                                       |
| Water                            | 7732-18-5  | Present [XU] (ACTIVE)                                                  |
| Copper Sulfate Pentahydrate      | 7758-99-8  | "Present (ACTIVE)" As Sulfuric acid, copper(2+) salt (1:1) [7758-98-7] |
| Cobalt (II) Chloride Hexahydrate | 7791-13-1  | "Present (ACTIVE)" As Cobalt chloride (CoCl <sub>2</sub> ) [7646-79-9] |

## 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                                       |
|----------------------------------|------------|--------|----------------------------------------------|
| Ferric Chloride Hexahydrate      | 10025-77-1 | EINECS | "231-729-4" As Iron trichloride [7705-08-0]  |
| Hydrochloric Acid                | 7647-01-0  | EINECS | 231-595-7                                    |
| Water                            | 7732-18-5  | EINECS | 231-791-2                                    |
| Copper Sulfate Pentahydrate      | 7758-99-8  | EINECS | "231-847-6" As Copper sulphate [7758-98-7]   |
| Cobalt (II) Chloride Hexahydrate | 7791-13-1  | EINECS | "231-589-4" As Cobalt dichloride [7646-79-9] |

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

| Chemical Name                    | CAS Number | Status          |
|----------------------------------|------------|-----------------|
| Ferric Chloride Hexahydrate      | 10025-77-1 | Present [23517] |
| Hydrochloric Acid                | 7647-01-0  | Present [37053] |
| Water                            | 7732-18-5  | Present [32224] |
| Copper Sulfate Pentahydrate      | 7758-99-8  | Present [35060] |
| Cobalt (II) Chloride Hexahydrate | 7791-13-1  | Present [23513] |

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

| Chemical Name                    | CAS Number | List    | Status                                                          |
|----------------------------------|------------|---------|-----------------------------------------------------------------|
| Ferric Chloride Hexahydrate      | 10025-77-1 | Annex 1 | "Present [KE-21134]" As Ferric chloride [7705-08-0]             |
| Hydrochloric Acid                | 7647-01-0  | Annex 1 | Present [KE-20189]                                              |
| Water                            | 7732-18-5  | Annex 1 | Present [KE-35400]                                              |
| Copper Sulfate Pentahydrate      | 7758-99-8  | Annex 1 | "Present [KE-08956]" As Cupric sulfate [7758-98-7]              |
| Copper Sulfate Pentahydrate      | 7758-99-8  | Annex 2 | "97-3-718 (1997-3-0718)" As Inorganic copper salts [RR-03690-8] |
| Cobalt (II) Chloride Hexahydrate | 7791-13-1  | Annex 1 | "Present [KE-06095]" As Cobaltous chloride [7646-79-9]          |

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

| Chemical Name                    | CAS Number | MITI No.                                             |
|----------------------------------|------------|------------------------------------------------------|
| Ferric Chloride Hexahydrate      | 10025-77-1 | (1)-213 (not considered as a new chemical substance) |
| Hydrochloric Acid                | 7647-01-0  | (1)-215                                              |
| Water                            | 7732-18-5  | - (listed on Japanese Pharmacopoeia 8th Edition)     |
| Copper Sulfate Pentahydrate      | 7758-99-8  | (1)-300 (not considered as a new chemical substance) |
| Cobalt (II) Chloride Hexahydrate | 7791-13-1  | (1)-207 (not considered as a new chemical substance) |

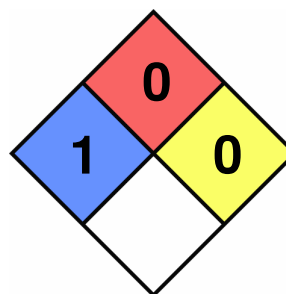
## SECTION 16: Other Information

# Safety Data Sheet

Classified According to OSHA Hazard Communication Standard (HCS 2024)

## 16.1 National Fire Protection Associate (NFPA) Rating

Health: 1  
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.