SAFETY DATA SHEET

Preparation Date: 6/23/2014    Revision Date: 9/20/2018    Revision Number: G2

1. IDENTIFICATION

Product identifier

Product code: C1018
Product Name: Cupric Chloride, dihydrate, USP

Other means of identification

Synonyms:
Copper (2+) chloride dihydrate;
Copper Chloride dihydrate;
Copper chloride (CuCl2), dihydrate
Copper (II) chloride dihydrate

CAS #: 10125-13-0
RTECS #: GL7030000
Cl#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Catalyst.
Uses advised against: No information available

Supplier:
Spectrum Chemical Mfg. Corp
14422 South San Pedro St.
Gardena, CA 90248
(310) 516-8000

Order Online At: https://www.spectrumchemical.com
Emergency telephone number: Chemtrec 1-800-424-9300
Contact Person: Martin LaBenz (West Coast)
Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

<table>
<thead>
<tr>
<th>Acute toxicity - Oral</th>
<th>Category 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 1 Sub-category C</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 1</td>
</tr>
</tbody>
</table>

Label elements

Danger

Hazard statements
Toxic if swallowed
Causes severe skin burns and eye damage
Hazards not otherwise classified (HNOC)
Not Applicable

Other hazards
Not available

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Do not breathe dust/fume/gas/mist/vapors/spray
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response
Immediately call a POISON CENTER or doctor/physician
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor/physician.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Rinse mouth
Do NOT induce vomiting

Precautionary Statements - Storage
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
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<tbody>
<tr>
<td>Cupric Chloride, Dihydrate</td>
<td>10125-13-0</td>
<td>100</td>
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</table>

3. COMPOSITION/INFORMATION ON INGREDIENTS

4. FIRST AID MEASURES

First aid measures

General Advice:
National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect himself.

Product code: C1018
Product name: Cupric Chloride, dihydrate, USP
**Skin Contact:**
Wash off immediately with soap and plenty of water. Continue flushing with plenty of water for at least 15 minutes. Remove all contaminated clothes and shoes. Immediate medical attention is required. Call a physician immediately.

**Eye Contact:**
Flush eyes with water for 15 minutes. Immediate medical attention is required. Call a physician immediately.

**Inhalation:**
Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. **WARNING!** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. Call a physician immediately.

**Ingestion:**
Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is required. Call a physician or Poison Control Center immediately.

**Most important symptoms and effects, both acute and delayed**

**Symptoms**
- Severe skin and eye irritation or burns
- Causes digestive (gastrointestinal) tract irritation
- May cause gastrointestinal (digestive) tract burns
- May cause abdominal pain, nausea, vomiting, diarrhea

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician:**
Treat symptomatically.

**Protection of first-aiders**
First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

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### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media**

**Suitable Extinguishing Media:**
The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.

**Unsuitable Extinguishing Media:**
No information available.

**Specific hazards arising from the chemical**

**Hazardous Combustion Products:**
If it is involved in a fire the following can be released:
- Hydrogen Chloride Gas
- copper oxides

**Specific hazards:**
Contact with metals may evolve flammable hydrogen gas.
Containers may explode when heated. When mixed with postassium or sodium, it produces a strong explosion on impact.

**Special Protective Actions for Firefighters**

**Specific Methods:**
No information available.

**Special Protective Equipment for Firefighters:**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**Product code:** C1018  **Product name:** Cupric Chloride, dihydrate, USP
6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

**Personal Precautions:**
Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

**Environmental precautions:**
Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

**Methods for containment:**
Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

**Methods for cleaning up:**
Sweep up and shovel. Use appropriate tools to put the spilled solid in a suitable waste disposal container. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

**Precautions for safe handling**

**Technical Measures/Precautions:**
Use only in area provided with appropriate exhaust ventilation. Keep away from incompatible materials.

**Safe Handling Advice:**
Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Technical Measures/Storage Conditions:**
Deliquescent. Protect from moisture. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

**Incompatible Materials:**
Oxidizing agents
Acids
Metals
Sodium
Potassium
Hydrazine
Acetylene
Sodium hypobromite
Nitromethane

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

**United States**

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<th>Components</th>
<th>CAS-No.</th>
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<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WEEL</th>
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<td>10125-13-0</td>
<td>None</td>
<td>1mg/m³ TWA (as Cu)</td>
<td>1 mg/m³ TWA (as Cu)</td>
<td>None</td>
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Product code: C1018
Product name: Cupric Chloride, dihydrate, USP
Canada

<table>
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<th>Components</th>
<th>CAS-No.</th>
<th>Canada - Alberta</th>
<th>Canada - British Columbia</th>
<th>Canada - Ontario</th>
<th>Canada - Quebec</th>
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Australia and Mexico

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<th>Mexico</th>
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<td>Cupric Chloride, Dihydrate</td>
<td>10125-13-0</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Engineering measures to reduce exposure:
Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles or Face-shield.
Skin and body protection: Long sleeved clothing
Chemical resistant apron
Gloves
If working with large quantities:
Chemical resistant protective suit
Respiratory protection: Wear respirator with dust filter.
Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

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<td>Odor: Odorless.</td>
<td>Taste: No information available.</td>
<td>Formula: CUCI2.2H2O</td>
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<td>Molecular/Formula weight (g/mole): 170.48</td>
<td>Flammability: No information available.</td>
<td>Flashpoint (°C/°F): No information available.</td>
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<td>Upper Explosion Limit (%): No information available</td>
<td>Melting point/range(°C/°F): No information available.</td>
<td>Decomposition temperature(°C/°F): No information available</td>
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<td>Boiling point/range(°C/°F): No information available</td>
<td>Bulk density: No information available.</td>
<td>Density (g/cm3): 2.54</td>
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10. STABILITY AND REACTIVITY

Reactivity:
Evaporates flammable hydrogen gas on contact with metals.
Contact with acids or acid fumes may evolve highly toxic hydrogen chloride fumes.
Water loss from 70-200 deg. C

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur.

Conditions to avoid:
Exposure to moisture. Exposure to moist air. Deliquescent in moist air. Exposure to warm, dry air. Incompatible materials.

Incompatible Materials:
Oxidizing agents
Acids
Metals
Sodium
Potassium
Hydrazine
Acetylene
Sodium hypobromite
Nitromethane

Hazardous decomposition products:
Copper oxides. Hydrogen chloride gas.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product code: C1018
Product name: Cupric Chloride, dihydrate, USP
Principal Routes of Exposure:
Skin. Inhalation. Ingestion.

Acute Toxicity

Component Information

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<th>Cupric Chloride, Dihydrate</th>
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<tbody>
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<tr>
<td>LD50/oral/rat = No information available</td>
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<tr>
<td>LD50/oral/mouse = 110 mg/kg</td>
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<tr>
<td>LD50/dermal/rabbit = No information available</td>
</tr>
<tr>
<td>LD50/dermal/rat = No information available</td>
</tr>
<tr>
<td>LC50/inhalation/rat = No information available</td>
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<tr>
<td>LC50/inhalation/mouse = No information available</td>
</tr>
<tr>
<td>Other LD50 or LC50 information = No information available</td>
</tr>
</tbody>
</table>

Product Information

LD50/oral/rat =
VALUE- Acute Tox Oral = No information available

LD50/oral/mouse =
Value - Acute Tox Oral = 110 mg/kg

LD50/dermal/rabbit
VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat
VALUE - Acute Tox Dermal = No information available

LC50/inhalation/rat
VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse
VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Causes severe skin irritation and burns with itching, erythema, burning pain.

Eye Contact: Severe eye irritation. Causes eye burns. May cause corneal damage. Symptoms can include redness, pain, blurred vision, discoloration, loss of vision, eye damage such permanent corneal opacification, chemical conjunctivitis, ulceration.

Inhalation Causes respiratory tract (nose, throat, lungs), and mucous membrane irritation.

Ingestion Toxic if swallowed. Ingestion of sufficient concentrations may result in metallic taste, salivation, headache, nausea, vomiting, burning in the mouth, epigastrium (esophagus and stomach), diaphoresis, abdominal/gastric pain, gastrointestinal bleeding, and bloody diarrhea. The vomitus is characteristically greenish-blue. Other systemic effects may occur including hemolysis, anemia, and anuria, oliguria, hematuria, acute kidney tubular necrosis, jaundice, hepatomegaly.

Product code: C1018 Product name: Cupric Chloride, dihydrate, USP
Aspiration hazard

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity

Repeated exposure may cause thickening of the skin and greenish color to the skin and hair.
Repeated exposure by inhalation may cause ulceration of the nasal septum and shrinking of the inner lining of the nose.
Repeated skin contact may cause dermatitis.
Repeated or prolonged ingestion may cause liver and kidney damage due to accumulation of copper in these organs. Chronic copper poisoning is rare. It has been mainly observed in individuals with Wilson disease or Indian childhood cirrhosis, in which progressive copper toxicity results from a hereditary metabolic disorder involving deficiency in the copper-binding and transport protein ceruloplasmin. Severe liver disease involving massive accumulation of copper in the liver has been reported in a few cases not meeting the diagnostic criteria for either Wilson disease or Indian childhood cirrhosis. Moreover, this so-called Indian childhood cirrhosis is becoming increasingly recognized in non-Indian children, and hepatic copper levels should be determined in all cases of childhood liver failure of unknown origin (aka idiopathic copper toxicosis). Generally, the effects of copper excess are reversible.
Repeated or prolonged inhalation may affect the blood (changes in white blood cell count), metabolism (metabolic acidosis).

Sensitization:

No information available.

Mutagenic Effects:

No information available

Carcinogenic effects:

Not considered carcinogenic.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>IARC</th>
<th>ACGIH - Carcinogens</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
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<tbody>
<tr>
<td>Cupric Chloride, Dihydrate</td>
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<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity

No data is available

Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure No information available.
STOT - repeated exposure No information available.

Product code: C1018  Product name: Cupric Chloride, dihydrate, USP
12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal.

<table>
<thead>
<tr>
<th></th>
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</tr>
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<tr>
<td>Cupric Chloride, Dihydrate</td>
<td>10125-13-0</td>
<td>None</td>
<td>None</td>
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<td>None</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT

UN-No: UN2802
Proper Shipping Name: Copper chloride
Hazard Class: 8
Subsidiary Class: No information available
Packing group: III
Emergency Response Guide Number: 154
Marine Pollutant: Severe Marine Pollutant
DOT RQ (lbs): No information available
Special Provisions: IB8, IP3, T1, TP33
Symbol(s): [DOT]: (PP) - Identifies a material that is a severe marine pollutant. [DOT]: (R2) - Identifies a material that is a hazardous substance that has a reportable quantity (RQ) of 10 pounds (4.54 Kilograms).
Description: UN2802, Copper chloride, 8, III

TDG (Canada)

UN-No: UN2802
Proper Shipping Name: Copper chloride
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: III
Marine Pollutant: No Information available
Description: UN2802, Copper chloride, 8, III

ADR

UN-No: UN2802

Product code: C1018  Product name: Cupric Chloride, dihydrate, USP
Proper Shipping Name: Copper chloride  
Hazard Class: 8  
Packing Group: III  
Subsidiary Risk: No information available  
Description: UN2802, Copper chloride, 8, III

IMO / IMDG  
UN-No: UN2802  
Proper Shipping Name: Copper chloride  
Hazard Class: 8  
Subsidiary Risk: P  
Packing Group: III  
Marine Pollutant: Marine Pollutant  
EMS: F-A  
Description: UN2802, Copper chloride, 8, III

RID  
UN-No: UN2802  
Proper Shipping Name: Copper chloride  
Hazard Class: 8  
Subsidiary Risk: 8  
Packing Group: III  
Description: UN2802, Copper chloride, 8, III

ICAO  
UN-No: UN2802  
Proper Shipping Name: Copper chloride  
Hazard Class: 8  
Subsidiary Risk: No information available  
Packing Group: III  
Description: UN2802, Copper chloride, 8, III

IATA  
UN-No: UN2802  
Proper Shipping Name: Copper chloride  
Hazard Class: 8  
Subsidiary Risk: No information available  
Packing Group: III  
ERG Code: 8L  
Special Provisions: No information available  
Description: UN2802, Copper chloride, 8, III

15. REGULATORY INFORMATION

International Inventories

<table>
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<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>U.S. TSCA</th>
<th>KOREA KECL (PICCS)</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
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<tbody>
<tr>
<td>Cupric Chloride, Dihydrate</td>
<td>10125-13-0</td>
<td>Not listed; Cupric Chloride, dehydrate is exempt from TSCA 8(b) Inventory listing since it is a hydrate. However, the anhydrous form (CAS number)</td>
<td>Not present</td>
<td>Present</td>
<td>Not present</td>
<td>Present</td>
<td>Not present</td>
<td>Not present</td>
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</tbody>
</table>

Product code: C1018  
Product name: Cupric Chloride, dihydrate, USP
U.S. Regulations

Cupric Chloride, Dihydrate

New Jersey RTK Hazardous Substance List: sn 2215 (copper compounds)
New Jersey (EHS) List: sn 2215 TPQ: 500 lb. (copper compounds)
New Jersey - Discharge Prevention - List of Hazardous Substances: Present (copper compounds)
Pennsylvania RTK: Environmental hazard (copper compounds)
Pennsylvania RTK - Environmental Hazard List Present (copper compounds)


Chemicals Known to the State of California to Cause Cancer:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
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<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
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CERCLA/SARA

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<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
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<td>Cupric Chloride, Dihydrate</td>
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<td>None</td>
<td>None</td>
<td>Copper compounds</td>
<td>1%</td>
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U.S. TSCA

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<th>TSCA 8(d) - Health and Safety Reporting</th>
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Canada

WHIMIS 2015 - GHS Classifications

WHIMIS 2015 Hazard Classification Information:

Component
Cupric Chloride, Dihydrate
10125-13-0 (100)

WHIMIS 2015 Hazard Classification
Acute toxicity - Oral - Category 3: H301 Toxic if swallowed;
Health Hazard Not Otherwise Classified - Category 1: Causes severe damage to the respiratory tract; Skin corrosion/irritation - Category 1: H314 Causes severe skin burns and eye damage;
Serious Eye Damage/Eye Irritation - Category 1: H318 Causes serious eye damage.

Canada Hazardous Products Regulation
This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR
Inventory

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<th>Canada (NDSL)</th>
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<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
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<td>CEPA Schedule I - Toxic Substances</td>
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EU Classification

EU GHS - SV - CLP 1272/2008

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EU - CLP (1272/2008)

R-phrase(s)

R34 - Causes burns.
R22 - Harmful if swallowed.
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s)

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S60 - This material and its container must be disposed of as hazardous waste.
S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

Xn - Harmful.
N - Dangerous for the environment.

Xn  N

16. OTHER INFORMATION

Preparation Date: 6/23/2014
Revision Date: 9/20/2018
Prepared by: Sonia Owen

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Product code: C1018  Product name: Cupric Chloride, dihydrate, USP
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End of Safety Data Sheet