According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 02.09.2018

# **Cuprous Chloride**

## **SECTION 1: Identification**

## **Product identifier**

Product name: Cuprous Chloride Product code: CU1910

# Recommended use of the product and restriction on use

Relevant identified uses: Laboratory Chemicals Uses advised against: Not determined or not applicable. Reasons why uses advised against: Not determined or not applicable.

## Manufacturer or supplier details

### Manufacturer: United States AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331

1-717-632-1291

# Emergency telephone number: United States ChemTel Inc +1(800)255-3924 +1(813)248-0585

# **SECTION 2: Hazard identification**

#### **GHS classification:**

Acute toxicity (oral), category 4 Chronic aquatic hazard, category 1 Acute aquatic hazard, category 1

#### Label elements

#### Hazard pictograms:



Signal word: Warning

## Hazard statements:

H302 Harmful if swallowed H410 Very toxic to aquatic life with long lasting effects H400 Very toxic to aquatic life

## **Precautionary statements:**

P264 Wash skin thoroughly after handling P270 Do not eat, drink or smoke when using this product P273 Avoid release to the environment P301+P330+P312 IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel

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unwell. P391 Collect spillage P405 Store locked up P501 Dispose of contents and container as instructed in Section 13

# Hazards not otherwise classified: None

## **SECTION 3: Composition/information on ingredients**

Identification	Name	Weight %
CAS number: 7758-89-6	Cuprous Chloride	>99

#### Additional Information: None

#### **SECTION 4: First-aid measures**

## **Description of first-aid measures**

## **General notes:**

Not determined or not available.

#### After inhalation:

Loosen clothing as necessary and position individual in a comfortable position Maintain an unobstructed airway

## After skin contact:

Rinse affected area with soap and water If symptoms develop or persist, seek medical attention

#### After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes If symptoms develop or persist, seek medical attention

## After ingestion:

Rinse mouth thoroughly Seek medical attention if irritation, discomfort, or vomiting persists Call a POISON CONTROL CENTER or seek medical attention if you feel unwell Do not induce vomiting Rinse mouth and then drink plenty of water

# Most important symptoms and effects, both acute and delayed

## Acute symptoms and effects:

Not determined or not available.

#### **Delayed symptoms and effects:**

Not determined or not available.

#### Immediate medical attention and special treatment

## **Specific treatment:**

Not determined or not available.

#### Notes for the doctor:

Not determined or not available.

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## **Cuprous Chloride**

## **SECTION 5: Fire-fighting measures**

### **Extinguishing media**

## Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

### Unsuitable extinguishing media:

Not determined or not applicable.

## Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

## Special protective equipment for firefighters:

Wear protective eye wear, gloves and clothing Refer to Section 8

## **Special precautions:**

Avoid inhaling gases, fumes, dust, mist, vapor and aerosols Avoid contact with skin, eyes and clothing

## **SECTION 6: Accidental release measures**

## Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation Ensure air handling systems are operational Wear protective eye wear, gloves and clothing

#### **Environmental precautions:**

Should not be released into the environment Prevent from reaching drains, sewer or waterway

#### Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing

### **Reference to other sections:**

Not determined or not applicable.

#### **SECTION 7: Handling and storage**

#### Precautions for safe handling:

Do not eat, drink, smoke or use personal products when handling chemical substances. Avoid breathing mist or vapor.

#### Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated area.

# SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

#### **Occupational Exposure limit values:**

Country (Legal Basis)	Substance	Identifier	Permissible concentration
United States (OSHA)	Cuprous Chloride	7758-89-6	OSHA PEL 1 mg/m3, as Cu (dusts and mists)

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Cuprous Chloride	7758-89-6	OSHA PEL 0.1 mg/m3, as Cu (fume)
ACGIH	Cuprous Chloride	7758-89-6	ACGIH TLV 1 mg/m3, as Cu, (dusts and mists)
	Cuprous Chloride	7758-89-6	ACGIH TLV 0.1 mg/m3, as Cu,(fume)
NIOSH	Cuprous Chloride	7758-89-6	NIOSH IDLH 100 mg/m3, as Cu (fume)

# **Biological limit values:**

No biological exposure limits noted for the ingredient(s).

# Information on monitoring procedures:

Not determined or not applicable.

## Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

# **Personal protection equipment**

#### Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

# Skin and body protection:

Select glove material impermeable and resistant to the substance.

## **Respiratory protection:**

When necessary, use NIOSH-approved breathing equipment.

#### General hygienic measures:

Wash hands before breaks and at the end of work. Avoid contact with skin, eyes and clothing.

## SECTION 9: Physical and chemical properties

# Information on basic physical and chemical properties

Appearance (physical state, color):	Beads, Beige .
Odor:	Not determined or not available.
Odor threshold:	Not determined or not available.
pH-value:	5 at 50 g/l at 20°C (68°F)
Melting/Freezing point:	Not determined or not available.
Boiling point/range:	1,490°C (2,714°F) - lit
Flash point:	Not determined or not available.
Evaporation rate:	Not determined or not available.
Flammability (solid, gaseous):	Not determined or not available.
Explosion limit upper:	Not determined or not available.
Explosion limit lower:	Not determined or not available.
Vapor pressure:	1.7 hPa (1.3 mmHg) at 546°C (1,015°F)
Vapor density:	Not determined or not available.
Density:	Not determined or not available.

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# **Cuprous Chloride**

Relative density:	4.140 g/cm <sup>3</sup>
Solubilities:	0.047 g/l at 20 °C (68 °F) - slightly soluble
Partition coefficient (n-octanol/water):	Not determined or not available.
Auto/Self-ignition temperature:	Not determined or not available.
Decomposition temperature:	Not determined or not available.
Dynamic viscosity:	Not determined or not available.
Kinematic viscosity:	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

## **Other information**

## **SECTION 10: Stability and reactivity**

### **Reactivity:**

Does not react under normal conditions of use and storage.

#### **Chemical stability:**

Stable under normal conditions of use and storage.

### Possibility of hazardous reactions:

None under normal conditions of use and storage.

#### **Conditions to avoid:**

Incompatible Materials.

#### Incompatible materials:

Strong acids. Strong bases. Oxidizing agents.

#### Hazardous decomposition products:

None known.

## **SECTION 11: Toxicological information**

## Acute toxicity

Assessment: Harmful if swallowed

Product data: No data available.

# Substance data:

Name	Route	Result
Cuprous Chloride	oral	LD50 (Rat): 336 mg/kg

#### Skin corrosion/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

#### Serious eye damage/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

#### **Respiratory or skin sensitization**

Assessment: Based on available data, the classification criteria are not met.

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Product data: No data available.

Substance data: No data available.

# Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed. National Toxicology Program (NTP): None of the ingredients are listed.

# Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

# **Reproductive toxicity**

Assessment: Based on available data, the classification criteria are not met. Product data: No data available. Substance data: No data available.

Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

# Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

# **Aspiration toxicity**

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Information on likely routes of exposure: No data available.

Symptoms related to the physical, chemical and toxicological characteristics: No data available.

Other information: No data available.

# **SECTION 12: Ecological information**

# Acute (short-term) toxicity

Assessment: Very toxic to aquatic life

#### Product data: No data available. Substance data:

Name	Result
Cuprous Chloride	LC50 (4 days) 2.8 - 9 150 μg/L
	LC50 (48 h) 7 - 200 μg/L

# Chronic (long-term) toxicity

Product data: No data available. Substance data:

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# **Cuprous Chloride**

Name	Result
Cuprous Chloride	NOEC (10.9 months) 10.6 μg/L

## Persistence and degradability

**Product data:** No data available. **Substance data:** No data available.

### **Bioaccumulative potential**

Product data: No data available. Substance data: No data available.

## Mobility in soil

**Product data:** No data available. **Substance data:** No data available.

Other adverse effects: No data available.

# SECTION 13: Disposal considerations

## **Disposal methods:**

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11)

# **SECTION 14: Transport information**

#### **Canadian Transportation of Dangerous Goods (TDG)**

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

# International Maritime Dangerous Goods (IMDG)

UN number	2802
UN proper shipping name	COPPER CHLORIDE
UN transport hazard class(es)	8
Packing group	111
Environmental hazards	None
Special precautions for user	None
Excepted quantities	30 g/30 ml
Limited quantity	5KG

# International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number 2802
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# **Cuprous Chloride**

UN proper shipping name	COPPER CHLORIDE	
UN transport hazard class(es)	8	CORRECTIVE
Packing group		
Environmental hazards	None	
Special precautions for user	None	
Excepted quantities	30 g/30 ml	
Passenger and cargo	25KG	
Cargo aircraft only	100KG	
Limited quantity	5KG	

## **SECTION 15: Regulatory information**

## **Canada regulations**

Domestic substances list (DSL):

7758-89-6 Cuprous Chloride

Listed

# Non-domestic substances list (NDSL): Not determined.

## **SECTION 16: Other information**

#### Abbreviations and Acronyms: None

#### Disclaimer:

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

#### NFPA: 2-0-0

# HMIS: 2-0-0

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#### End of Safety Data Sheet