

# **Section 1 - Chemical Product and Company Identification**

#### **MSDS Name:**

Cobaltous Chloride, 1.2%

#### **Catalog Numbers:**

LC13200

#### Synonyms:

Cobalt chloride solution

#### **Company Identification:**

LabChem Inc

200 William Pitt Way

Pittsburgh, PA 15238

#### **Company Phone Number:**

(412) 826-5230

#### **Emergency Phone Number:**

(800) 424-9300

#### **CHEMTREC Phone Number:**

(800) 424-9300 or 011-703-527-3887

### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7732-18-5	Water	>94
7647-01-0	Hydrochloric acid	<4
7791-13-1	Cobalt (II) Chloride Hexahydrate	1.2

### Section 3 - Hazards Identification

### **Emergency Overview**

Appearance: clear, pink solution

**Danger!** Corrosive. Causes burns by all exposure routes. May cause cancer based on animal studies. May cause allergic skin and respiratory reactions. May cause heart, liver and kidney damage. May impair fertility.

**Target Organs:** eyes, skin, respiratory, reproductive and gastrointestinal systems, liver, kidneys, blood, heart

### **Potential Health Effects**

Eye:

Causes burns to the eyes.

Skin:

Causes burns to the skin. May cause allergic skin reaction



#### Ingestion:

May cause burns to the gastrointestinal tract, nausea, vomiting and diarrhea. May cause liver, kidney, and heart damage.

#### Inhalation:

Causes respiratory tract burns. May cause asthmatic attacks due to allergic sensitization of the respiratory tract.

#### Chronic:

May cause cancer based on animal studies. Tumorigenic effects have occurred in laboratory animals. Reproductive toxicity effects have occurred in laboratory animals. May cause adverse liver, kidney, and cardiac effects. May cause blood abnormalities.

### Section 4 - First Aid Measures

#### Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once.

#### Skin:

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid at once.

#### Ingestion:

Do not induce vomiting. Give conscious victim 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid at once.

#### Inhalation:

Move victim to fresh air immediately. If breathing is difficult, administer oxygen. Give artificial respiration if necessary. Get medical aid at once.

#### Notes to Physician:

Treat symptomatically and supportively.

# **Section 5 - Fire Fighting Measures**

#### **General Information:**

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Contact with metals may evolve flammable hydrogen gas.

### **Extinguishing Media:**

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

#### **Autoignition Temperature:**

No information found.

#### Flash Point:

No information found.

#### NFPA Rating:

Health- 3, Flammability- 0, Instability- 0.

#### **Explosion Limits:**

Lower: n/a Upper: n/a



### Section 6 - Accidental Release Measures

#### **General Information:**

Use proper personal protective equipment as indicated in Section 8.

#### Spills/Leaks:

Absorb spill with inert material such as sand, vermiculite, or diatomaceous earth, and transfer to a suitable container labeled for later disposal. Label reclaimed spill material as corrosive. Material may be carefully neutralized to pH 7 with sodium bicarbonate.

# Section 7 - Handling and Storage

#### Handling:

Wash thoroughly after handling. Do not ingest or inhale. Do not get in eyes, on skin, or on clothing. Use with adequate ventilation.

#### Storage:

Store tightly capped in a cool, dry, well-ventilated area away from incompatible materials.

# **Section 8 - Exposure Controls, Personal Protection**

#### **Engineering Controls:**

Facilities using or storing this material should be equipped with an eyewash and safety shower. Provide local exhaust or general dilution ventilation to keep airborne levels below the permissible exposure limits.

#### **Exposure Limits:**

<b>Chemical Name:</b>	ACGIH	NIOSH	OSHA
Cobalt (II) Chloride	None of the components	None of the components	None of the components
hexahydrate	are on this list	are on this list	are on this list
Hydrochloric acid	2 ppm Ceiling	5 ppm Ceiling	5 ppm Ceiling
		7 mg/m3 Ceiling	7 mg/m3 Ceiling
		50 ppm IDLH	
Water	None of the components	None of the components	None of the components
	are on this list	are on this list	are on this list

#### **OSHA Vacated PELs:**

Hydrochloric acid: 5 ppm Ceiling; 7 mg/m3 Ceiling

### **Personal Protective Equipment**

#### Eves:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133. Do not wear contact lenses when working with chemicals.

#### Skin:

Wear appropriate protective gloves to prevent skin exposure.

#### Clothing:

Wear appropriate protective clothing to prevent skin exposure.

#### **Respirators:**

Follow the OSHA respirator regulations found in 29 CFR 1910.134. Always use a NIOSH-approved respirator when necessary.



# **Section 9 - Physical and Chemical Properties**

Physical State: Liquid

Color: Pink

Odor: None reported

pH: Acidic

Vapor Pressure: No information found. Vapor Density: No information found. Evaporation Rate: No information found. Viscosity: No information found.

**Boiling Point:** No information found. **Freezing/Melting Point:** No information found. **Decomposition Temperature:** No information found.

**Solubility in water:** Soluble **Specific Gravity/Density:** 1.0-1.1

Molecular Formula: No information found. Molecular Weight: No information found.

# Section 10 - Stability and Reactivity

#### **Chemical Stability:**

Stable under normal temperatures and pressures.

#### **Conditions to Avoid:**

Incompatible materials, excess heat.

### Incompatibilities with Other Materials:

Strong oxidizers, metals, bases, reducing agents.

#### **Hazardous Decomposition Products:**

Hydrogen chloride.

#### **Hazardous Polymerization:**

Has not been reported

### **Section 11 - Toxicological Information**

#### RTECS:

CAS# 7732-18-5: ZC0110000 CAS# 7647-01-0: MW4025000 CAS# 7791-13-1: GG0200000

#### LD50/LC50:

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg

CAS# 7647-01-0:

Oral, rat: LD50 = 700 mg/kg Dermal, rat: LD50 = 5010 mg/kg Inhalation, rat: 3124 ppm/1H

CAS# 7791-13-1:

Oral, rat: LD50 = 766 mg/kg Dermal, rat: LD50 = 2 g/kg



### Carcinogenicity:

CAS# 7791-13-1: Listed as a carcinogen by IARC and OSHA.

#### **Epidemiology:**

Tumorigenic effects have occurred in laboratory animals.

#### Teratogenicity:

Teratogenic effects have occurred in laboratory animals.

#### Reproductive:

Reproductive toxicity effects have occurred in laboratory animals.

#### Mutagenicity:

Mutagenic effects have occurred in laboratory animals.

#### **Neurotoxicity:**

No information found

### **Section 12 - Ecological Information**

No information found

### **Section 13 - Disposal Considerations**

Dispose of in accordance with Federal, State, and local regulations.

# **Section 14 - Transport Information**

#### **US DOT**

Shipping Name: Hydrochloric acid solution

Hazard Class: 8 UN Number: UN1789 Packing Group: PG II

### **Section 15 - Regulatory Information**

#### **US Federal**

#### TSCA:

CAS# 7732-18-5 is listed on the TSCA Inventory.

CAS# 7647-01-0 is listed on the TSCA Inventory.

CAS# 7791-13-1 is not listed on the TSCA Inventory because it is a hydrate. It is considered to be listed if the CAS number for the anhydrous form in on the Inventory (40CFR 720.3(u)(2)).

#### SARA Reportable Quantities (RQ):

CAS# 7647-01-0: final RQ: 5000 lb. (2270 Kg)

#### **CERCLA/SARA Section 313:**

This material contains Hydrochloric acid (CAS# 7647-01-0, <4%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

#### **OSHA - Highly Hazardous:**

CAS# 7647-01-0 is considered highly hazardous by OSHA.



#### **US State**

#### State Right to Know:

CAS# 7647-01-0 is listed on the following state Right-to-Know lists: California, Massachusetts, Minnesota, New Jersey, and Pennsylvania.

#### California Regulations:

None

### **European/International Regulations**

#### Canadian DSL/NDSL:

CAS# 7732-18-5 is listed on Canada's DSL List.

CAS# 7647-01-0 is listed on Canada's DSL List.

CAS# 7791-13-1 is not listed on Canada's DSL or NDSL Lists.

#### **Canada Ingredient Disclosure List:**

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 7647-01-0 is listed on Canada's Ingredient Disclosure List.

CAS# 7791-13-1 is not listed on Canada's Ingredient Disclosure List.

### **Section 16 - Other Information**

MSDS Creation Date: February 4, 1999

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