



Material Safety Data Sheet

Cobalt Chloride, 1.2%

Section 1 - Chemical Product and Company Identification

MSDS Name:

Cobalt Chloride, 1.2%

Catalog Numbers:

LC13200

Synonyms:

Cobaltous chloride, cobalt muriate

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

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7791-13-1	Cobalt (II) Chloride hexahydrate	1.2

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: purple

Causes eye and skin irritation. Causes respiratory tract irritation. May cause digestive tract irritation with nausea, vomiting, and diarrhea. May cause lung damage. May cause blood abnormalities. May cause allergic skin reaction. May cause cancer based on animal studies.

Target Organs: lungs, red blood cells.

Potential Health Effects

Eye:

Causes eye irritation.

Skin:

Prolonged and/or repeated contact may cause irritation and/or dermatitis. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material.



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Ingestion:

May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation:

Causes delayed lung injury. Causes respiratory tract irritation. May cause asthmatic attacks due to allergic sensitization of the respiratory tract. May cause asthma and shortness of breath.

Chronic:

No information found.

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 chemical is gone. Get medical aid.

Skin:

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

Ingestion:

Give conscious victim 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation:

Move victim to fresh air immediately. Get medical aid.

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.

Extinguishing Media:

Use agent most appropriate to extinguish fire.

Autoignition Temperature:

Not available.

Flash Point:

Noncombustible.

NFPA Rating:

CAS# 7791-13-1: Not published.

Explosion Limits:

Lower: No information Upper: No information

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.



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Spills/Leaks:

Absorb spills with absorbent (vermiculite, sand, fuller's earth) and place in plastic bags for later disposal.

Section 7 - Handling and Storage

Handling:

Wash thoroughly after handling. Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Avoid ingestion and inhalation.

Storage:

Keep away from heat and flame. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances. Store capped at room temperature.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Chemical Name:	ACGIH	NIOSH	OSHA
Cobalt (II) Chloride hexahydrate	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.

OSHA Vacated PELs

Personal Protective Equipment

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

Skin:

Wear appropriate gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

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

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Color: purple

Odor: None reported

pH: No information found.

Vapor Pressure: Negligible.

Vapor Density: No information found.

Evaporation Rate: Negligible.



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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: No information found.

Molecular Formula: Not applicable.

Molecular Weight: No information found.

Section 10 - Stability and Reactivity

Chemical Stability:

Stable.

Conditions to Avoid:

Incompatible materials, moisture.

Incompatibilities with Other Materials

Strong oxidizers and alkali metals. Absorbs NH₃ from air. .

Hazardous Decomposition Products

Hydrogen chloride.

Hazardous Polymerization

Has not been reported.

Section 11 - Toxicological Information

RTECS:

CAS# 7791-13-1: GG0200000.

LD50/LC50:

CAS# 7791-13-1:

Oral, rat: LD50 = 766 mg/kg.

Carcinogenicity:

CAS# 7791-13-1: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology:

Teratogenicity:

Reproductive:

Mutagenicity

Neurotoxicity

Section 12 - Ecological Information

No information found.



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Section 13 - Disposal Considerations

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

Section 14 - Transport Information

US DOT

ShippingName: Hydrochloric acid solution

Hazard Class: 8

UN Number: UN1789

Packing Group: PG II

Section 15 - Regulatory Information

US Federal

TSCA

CAS# 7791-13-1 is not listed on the TSCA Inventory. It is for research and development use only.

SARA Reportable Quantities (RQ)

None of the components are on this list.

CERCLA/SARA Section 313

None of the components are on this list.

OSHA - Highly Hazardous

None of the components are on this list.

US State

State Right to Know

California Regulations

European/International Regulations

Canadian DSL/NDSL

None of the chemicals in this product are listed on the DSL/NDSL list.

Canada 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

Revision Date: March 10, 2004



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