

# SAFETY DATA SHEET

## COBALT(II) CHLORIDE, HEXAHYDRATE

### SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

**BioShop Canada Inc.**  
**5480 Mainway**  
**Burlington, Ontario L7L 6A4**  
**1-800-234-1179**  
**Emergency Telephone No.: 1-905-466-3832**  
**Chemical Name:** Cobalt chloride hexahydrate  
**Catalog Number:** COB001

### SECTION 3 HAZARDS IDENTIFICATION

#### GHS Classification:

Acute toxicity, Oral, Category 4  
Respiratory sensitization, Category 1  
Skin sensitization, Category 1  
Germ cell mutagenicity, Category 2  
Carcinogenicity, Inhalation (Category 1B)  
Reproductive toxicity, Category 1B  
Short-term (acute) aquatic hazard, Category 1  
Long-term (chronic) aquatic hazard, Category 1

#### Pictogram:



**Signal word:** Danger

#### Hazard statements:

H302 Harmful if swallowed.  
H317 May cause an allergic skin reaction.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H341 Suspected of causing genetic defects.  
H350 May cause cancer by inhalation.  
H360 May damage fertility or the unborn child.  
H410 Very toxic to aquatic life with long lasting effects.

#### Precautionary statements:

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and under-

stood.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the work-place.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P284 Wear respiratory protection.

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

#### Potential health effects:

**Target Organs:** Heart, Blood, Kidney,

**Eyes:** causes eye irritation.

**Skin:** causes irritation. May be absorbed through skin. may cause burns.

**Inhalation:** May cause irritation to respiratory tract. Harmful if inhaled.

**Ingestion:** Harmful if swallowed..May cause irritation. May cause GI irritation with vomiting and diarrhea. May cause rapid heart rate

**CHRONIC HEALTH HAZARDS:** May cause GI and cardiac disturbances..

### SECTION 2 COMPOSITION/ INGREDIENTS

	CAS #	%
Cobalt chloride, hexahydrate	7791-13-1	+98%

**Molecular Formula:** CoCl<sub>2</sub>·6H<sub>2</sub>O

**Molecular Weight:** 273.93

### SECTION 4 FIRST AID MEASURES

**Eyes:** Flush eyes with water for 15 minutes . Get medical aid immediately.

**Skin:** In case of contact, flush area immediately with water. Get medical aid if irritation persists.

**Inhalation:** Remove victim to fresh air. Get medical aid Call poison center.

**Ingestion:** Wash mouth with water. DO NOT INDUCE VOMITING. Get medical aid . Call poison center.

### SECTION 5 FIRE FIGHTING MEASURES

**Flammable:** No

**Flash Point:** N/A

**Autoignition Temperature:** N/A

**Extinguishing Media:** Use water spray, foam, dry chemical or carbon

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dioxide.

**Explosion Data:** Risk of explosion with alkali metals

### SECTION 6 ACCIDENTAL RELEASE MEASURES

Ventilate the area. Wear appropriate protective equipment. Sweep and place in a closed container.

### SECTION 7 HANDLING AND STORAGE

**Handling:** Avoid contact. Do not get in eyes, on skin, or clothing. wear appropriate eye protection, safety glasses. where appropriate protective equipment. Wash thoroughly after handling. Wash contaminated clothing before reuse.

**Storage Conditions:** Room temperature.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits:

TWA, 0.02 mg/m<sup>3</sup> Canada

TWA, 0.02mg/m<sup>3</sup>, USA

Use adequate ventilation. Avoid dust generation..

Wear appropriate protective equipment to prevent eye and skin exposure.

Wear appropriate respirator to prevent lung irritation.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** solid

**Appearance and Odor:** N/A

**Melting Point:** N/A

**Boiling Point:** N/A

**Specific Gravity:** 1.92

**Vapor Density:** N/A

**Water Solubility:** yes

**pH:** N/A

### SECTION 10 STABILITY AND REACTIVITY:

**Stability:** Stable at normal room temperature and pressure

**Conditions to avoid:** dust generation, moisture

**Incompatibility:** alkali metals.

**Hazardous Decomposition Products:** no data available

**Hazardous Polymerization:** Has not been reported

### SECTION 11 TOXICOLOGICAL PROPERTIES

#### Exposure Limits:

LD50/LC0:

Oral , rat: LD50=766mg/kg

Dermal rat, LD50= 2000mg/kg

**Epidemiology:** No data available

**Teratogenicity:** No data available

**Reproductive Effects:** may damage fertility

**Neurotoxicity:** No data available

**Mutagenicity:** No data available

**Carcinogenicity:** possibly carcinogenic to Humans

### SECTION 12 ECOLOGICAL INFORMATION

Very toxic to aquatic life.

### SECTION 13 DISPOSAL CONSIDERATION

**Waste Disposal:** Burn in chemical incinerator. Observe all Federal, provincial and local regulations.

### SECTION 14 TRANSPORT INFORMATION

#### Shipping Information:

TDG UN number: 3077 Class: 9 Packing group: III Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cobalt dichloride hexahydrate) Labels: 9 ERG Code: 171 Marine pollutant: no

IMDG UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cobalt dichloride hexahydrate) Marine pollutant : yes

IATA UN number: 3077 Class: 9 Packing group: III Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Cobalt dichloride hexahydrate)

### SECTION 15 REGULATORY INFORMATION

**US :** TSCA: listed

**European/International:**  
N/A

**Canada:** WHMIS: D2A, D2B, toxic material causing other toxic effects.

### SECTION 16 ADDITIONAL INFORMATION

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Date Prepared: Jan 1/2025

Phone: (800) 234-1179

The information provided on this Material Safety Data Sheet is furnished in good faith and without warranty of any kind. The above information is believed to be correct and should be used only as a guide. BioShop Canada Inc. shall not be held liable for any damage resulting from the handling or from the contact with the above product.

Observe all federal, provincial and state laws concerning health, safety and pollution.