



## COBALT (II) CHLORIDE HEXAHYDRATE Safety Data Sheet- MSDS

Update version -IV-

### Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** COBALT (II) CHLORIDE (HEXAHYDRATE)

**Product Code:** 976

**CAS#:** 7791-13-1

**Chemical Formula:**  $\text{COCl}_2 \cdot 6(\text{H}_2\text{O})$

**Molecular Formula:** 237.93

#### SUPPLIER

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### Section 2 - HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]**

Carcinogenicity, Inhalation (Category 1B) Acute toxicity, Oral (Category 4)

Respiratory sensitization (Category 1)

Skin sensitization (Category 1)

Reproductive toxicity (Category 1B)

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**

May cause cancer by inhalation. Harmful if swallowed. May cause sensitization by inhalation and skin contact.

**Other hazards – none**

### Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

**Composition:**

**Name:** COBALT (II) CHLORIDE (HEXAHYDRATE)

**Chemical Formula:**  $\text{COCl}_2 \cdot 6(\text{H}_2\text{O})$

**Molecular Formula:** 237.93

## Section 4 - FIRST AID MEASURES

### Description of first aid measures

General advice Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled If breathed in:** Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact:** Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact:** Flush eyes with water as a precaution.

**If swallowed:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Most important symptoms and effects, both acute and delay:** No data available

**Indication of any immediate medical attention and special treatment needed:** No data available

## Section 5 - FIRE FIGHTING MEASURES

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NOx), Sulphur oxides, Sodium oxides

### Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

## Section 6 - ACCIDENTAL RELEASE MEASURES

### Personal precautions and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist or gas.

### Environmental precautions

Do not let product enter drains.

### Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

## Section 7 - HANDLING AND STORAGE

### Precautions:

Keep away from heat. Keep away from sources of ignition.

### Storage:

Store in cool, dry place in closed containers.

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure controls

**Appropriate engineering controls** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Personal protective equipment

**Eye/face protection** Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection** Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection** for nuisance exposures uses type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure** Do not let product enter drains.

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance Form	: Crystal
Color	: Pink to Red
Oduor	: Not available
Oduor Threshold	: Not available
pH	: Not available
Melting point/freezing point	: Not available
Initial boiling point and boiling range	: Not available
Flash point	: Not available
Evaporation rate	: Not available
Flammability (solid, gas)	: Not available
Upper/lower flammability or explosive limits	: Not available
Vapor pressure	: Not available
Vapor density	: Not available
Relative density	: Not available
Water solubility	: Not available
Partition coefficient	: Not available
Auto-ignition temperature	: Not available

## Section 10 - CHEMICAL STABILITY AND REACTIVITY INFORMATION

**Stability:** Stable under recommended storage conditions.

**Instability Temperature:** Not available.

**Conditions of Instability:** Excess heat.

**Incompatibility with various substances:** Strong oxidizing agents

**Special Remarks on Reactivity:** Not available.

## Section 11 - TOXICOLOGICAL INFORMATION

**Acute toxicity:** LD50 Oral - rat - 766 mg/kg  
LD50 Dermal - rat - > 2.000 mg/kg

**Skin corrosion/irritation:** Not available.

**Serious eye damage/eye irritation:** Not available.

**Respiratory or skin sensitization:** Not available.

**Carcinogenicity:** Not available.

**Reproductive toxicity:** Not available.

**Specific target organ toxicity - single exposure:** Not available.

**Specific target organ toxicity - repeated exposure:** Not available.

**Aspiration hazard:** Not available.

## Section 12 – ECOLOGICAL INFORMATION

**Toxicity:** Toxicity to fish LC50 - Cyprinus carpio (Carp) - 0,33 mg/l - 96,0 h

**Persistence and degradability:** Not available.

**Bio accumulative potential:** Not available.

**Mobility in soil:** Not available.

## Section 13 - DISPOSAL CONSIDERATIONS

**Waste treatment methods** Product Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging** Dispose of as unused product.

## Section 14 - TRANSPORT INFORMATION

**UN number:**

ADR/RID:3077

IMDG:3077

IATA:3077

**UN proper shipping name**

**ADR/RID:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cobalt dichloride hexahydrate)

**IMDG:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cobalt dichloride hexahydrate)

**IATA:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cobalt dichloride hexahydrate)

**Transport hazard class(es):**

ADR/RID: 9            IMDG: 9            IATA:9

**Packaging group:**

ADR/RID: III            IMDG:III            IATA: III

**Environmental hazards:**

ADR/RID: Yes            IMDG Marine pollutant: Yes    IATA: Yes

## Section 15 - REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**Chemical safety assessment**

For this product a chemical safety assessment was not carried out.

## Section 16 - OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3.

H272	May intensify fire; oxidizer.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

### Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.cdhfinechemical.com](http://www.cdhfinechemical.com) for additional terms and conditions of sale.

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