

Material Safety Data Sheet (MSDS)

Product Name: Cobalt Chloride
MSDS Generate Date: 20-05-2017
Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd
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1. Identification of the Substance/Preparation and Company

Product Name: Cobalt Chloride

Recommended Use: Chemical intermediate, laboratory reagent, pigments, catalysts, humidity indicators

Restrictions on Use: Not for food, drug, or cosmetic use

2. Hazard Identification

- **Classification:** Toxic, Carcinogenic, Skin & Respiratory Sensitizer
- **Hazard Statements:**
 - Harmful if swallowed or inhaled
 - Causes skin and eye irritation
 - May cause allergic skin reaction
 - Suspected carcinogen

- **Target Organs:** Lungs, skin, eyes
- **Signal Word:** Danger

3. Composition / Information on Ingredients

Chemical Name: Cobalt Chloride

Purity: $\geq 98\%$

CAS No.: 7646-79-9

EC No.: 231-589-4

4. First Aid Measures

- **Inhalation:** Move to fresh air immediately. Seek medical attention.
- **Skin Contact:** Wash thoroughly with soap and water. Remove contaminated clothing.
- **Eye Contact:** Rinse cautiously with water for at least 15 minutes.
- **Ingestion:** Do NOT induce vomiting. Seek immediate medical advice.

5. Fire-Fighting Measures

- **Flammability:** Non-flammable
- **Suitable Extinguishing Media:** Water spray, dry chemical, CO₂
- **Hazardous Combustion Products:** Cobalt oxides, hydrogen chloride fumes
- **Protective Equipment:** Self-contained breathing apparatus

6. Accidental Release Measures

- Avoid dust formation
- Wear protective gloves, goggles, and mask
- Collect spilled material using non-sparking tools
- Dispose according to local regulations

7. Handling and Storage

- Handle in well-ventilated areas
- Avoid inhalation and skin contact
- Store in tightly closed containers
- Keep away from moisture and incompatible substances

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Local exhaust ventilation
- **Personal Protective Equipment:**
 - Gloves (nitrile recommended)
 - Safety goggles
 - Dust mask / respirator
- **Hygiene Measures:** Wash hands after handling

9. Physical and Chemical Properties

- **Appearance:** Pink to reddish crystalline solid
- **Odor:** Odorless
- **Solubility:** Soluble in water and alcohol
- **pH:** Acidic
- **Melting Point:** ~735°C (anhydrous)

10. Stability and Reactivity

- **Stability:** Stable under normal conditions
- **Incompatible Materials:** Strong oxidizers, strong acids
- **Hazardous Decomposition:** Cobalt oxides, HCl fumes

11. Toxicological Information

- **Acute Toxicity:** Harmful if ingested or inhaled

- **Chronic Effects:** May cause lung damage and allergic reactions
 - **Carcinogenicity:** Suspected carcinogen (IARC listed)
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12. Ecological Information

- Toxic to aquatic organisms
 - May cause long-term adverse effects in aquatic environments
 - Avoid release into soil and water bodies
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13. Disposal Considerations

- Dispose as hazardous waste
 - Follow local, regional, and national disposal regulations
 - Do not dispose via household waste or drainage systems
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14. Transport Information (DETAILED)

- **UN Number:** UN 3288
- **Proper Shipping Name:** Toxic solid, inorganic, n.o.s. (Cobalt Chloride)
- **Transport Hazard Class:** Class 6.1 (Toxic Substances)
- **Packing Group:** III
- **Labels Required:** Toxic
- **IMDG (Sea Transport):**
 - IMDG Class: 6.1
 - Marine Pollutant: Yes
- **IATA (Air Transport):**
 - Cargo Aircraft Only (restrictions apply)
- **ADR/RID (Road/Rail):**
 - ADR Class: 6.1

- **Special Precautions:**
 - Avoid damage to packaging
 - Keep away from food, feed, and incompatible materials
 - Ensure proper labeling and documentation

15. Regulatory Information

- Listed under hazardous chemicals regulations
- Subject to workplace exposure limits
- Follow applicable national and international chemical safety laws

16. Other Information

- This MSDS is prepared based on available data and best knowledge
- Information is provided for safety guidance only
- User is responsible for compliance with all applicable regulations
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.