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Oxford
Range of
Laboratory Chemicals

# MATERIAL SAFETY DATA SHEET

# COBALT (II) IODIDE 98%

**(Hydrate)**
**(Cobaltous Iodide)**
**MSDS CAS: 13455-29-3**

## Section 1: Chemical Product and Company Identification

**Section 1: Chemical Product**
**Product Name: COBALT (II) IODIDE**
**CAS#: 13455-29-3**
**Synonym: Cobaltous Iodide**
**Chemical Name: Cobalt (II) Iodide**
**Chemical Formula: $CoI_2$**

**Brand : OXFORD**

**Details Of The Supplier Of The Safety Data Sheet :**

**Company identification:** **OXFORD LAB FINE CHEM LLP**
**Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,**
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**Tel: 91-250-2390989**
**Tel/Fax: 91-250-2390032**

## Section 2: Composition and Information on Ingredients

**Composition:**

| Name | CAS # | % by Weight | Hazardous |
|---|---|---|---|
| Cobalt (II) Iodide | 13455-29-3 | 100 | Yes |

## Section 3: Hazards Identification

**Risk advice to man and the environment:**
**Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin.**

## Section 4: 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:**
**Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.**

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

## Section 5: Fire and Explosion Data

**Suitable extinguishing media:**
**Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.**

**Special protective equipment for fire-fighters:**
**Wear self-contained breathing apparatus for firefighting if necessary.**

## Section 6: Accidental Release Measures

**Personal precautions:**
**Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.**

# Section 6: Accidental Release Measures (Continued)

**Environmental precautions:** **Do not let product enter drains.**

**Methods for cleaning up:**
**Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.**

# Section 7: Handling and Storage

**Handling:**
**Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.**

**Storage:**
**Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Store under inert gas. Light sensitive. Strongly hygroscopic.**

# Section 8: Exposure Controls/Personal Protection

**Personal protective equipment**
**Respiratory protection**
**Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).**

**Hand protection:**
**The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.**

**Eye protection:** **Safety glasses.**

**Skin and body protection:**
**Choose body protection according to the amount and concentration of the dangerous substance at the work place.**

# Section 8: Exposure Controls/Personal Protection (Continued)

**Hygiene measures:**
**Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.**

# Section 9: Physical and Chemical Properties

| | |
|---|---|
| **Appearance Form** | **: Powder.** |
| **Molecular Weight** | **: 312.74 g/mole** |
| **pH** | **: No data available.** |
| **Melting point** | **: > 515 °C** |
| **Boiling point** | **: No data available.** |
| **Flash point** | **: Not applicable.** |
| **Ignition temperature** | **: No data available.** |
| **Lower explosion limit** | **: No data available.** |
| **Upper explosion limit** | **: No data available.** |
| **Density** | **: 5,45 g/mL at 25 °C** |
| **Water solubility** | **: No data available.** |

# Section 10: Stability and Reactivity Data

**Storage stability:**
**Stable under recommended storage conditions.**

**Conditions to avoid:**
**Avoid moisture. Light.**

**Materials to avoid:**
**Strong oxidizing agents**

**Hazardous decomposition products:**
**Hazardous decomposition products formed under fire conditions. - Hydrogen iodide, Cobalt/cobalt oxides**

# Section 11: Toxicological Information

**Acute toxicity:** No data available.

**Irritation and corrosion:** No data available.

**Sensitization:** No data available.

**Chronic exposure:**
**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Signs and Symptoms of Exposure:**
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated, prolonged exposure to iodides may produce indium in sensitive individuals. Symptoms of exposure include: skin rash, running nose, headache and irritation of the mucous membrane. For severe cases the skin may show pimples, boils, hives, blisters and black and blue spots. Iodides are readily diffused across the placenta. Neonatal deaths from respiratory distress secondary to goiter have been reported. Iodides have been known to cause drug-induced fevers, which are usually of short duration.

**Potential Health Effects:**
**Inhalation** Harmful if inhaled. Causes respiratory tract irritation.
**Skin** Harmful if absorbed through skin. Causes skin irritation.
**Eyes** Causes eye irritation.
**Ingestion** Harmful if swallowed.

# Section 12: Ecological Information

**Elimination information (persistence and degradability):** No data available.

**Ecotoxicity effects:** No data available.

**Further information on ecology:** No data available.

# Section 13: Disposal Considerations

**Product:**
**Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. 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

**Land transport (ADR-RID)**

**General information: Not regulated.**

**Sea transport (IMDG) [English only]**

**General information: Not regulated.**

**Air transport (ICAO-IATA) [English only]**

**General information: Not regulated.**

# Section 15: Other Regulatory Information

**Labelling according to EC Directives**
**Hazard symbols**
**Xn Harmful**

**R-phrase(s)**
**R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.**
**R36/37/38 Irritating to eyes, respiratory system and skin.**

**S-phrase(s):**
**S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.**
**S36 Wear suitable protective clothing.**

## Section 16 - Additional Information

**References: Not available.**

**Other Special Considerations: Not available.**

## *Disclaimer:*

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