

**SDS** #: 253

Revision Date: March 25, 2014

11/18/2024: Reviewed file. More current MSDS/SDS not available. CAS

Safety Data Sheet (SDS)

## SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Signal Word DANGER

Cobalt

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

Chemtrec Emergency Phone Number: (800) 424-9638

Pictograms

## SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Sensitization, respiratory (Category 1). May cause allergy or asthma symptoms or breathing difficulties if inhaled (H334). Avoid breathing dust or fumes (P261).



Hazard class: Carcinogenicity (Category 2). Suspected of causing cancer (H351). Obtain special instructions before use (P201). Do not handle until all safety precautions have been read and understood (P202).

### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

<b>Component Name</b>	CAS Number	Formula	Formula Weight	Concentration
Cobalt	7440-48-4	Со	58.93	

### SECTION 4 — FIRST AID MEASURES

**If exposed or concerned:** Get medical advice or attention (P308+P313).

**If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340). **If experiencing respiratory symptoms:** Call a POISON CENTER or physician (P342+P311).

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

If on skin: Wash with plenty of water.

If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

## **SECTION 5 — FIRE FIGHTING MEASURES**

Nonflammable solid.

NFPA Code

None established

Finely powdered dust is flammable when exposed to heat or flame. When heated to decomposition, may emit toxic fumes of cobalt.

In case of fire: Use a tri-class dry chemical fire extinguisher.

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

Remove all ignition sources and water. Sweep up the spill, place in a sealed bag or container, and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

## SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #1. Store with metals and metal hydrides.

Use only in a hood or in a well-ventilated area.

### SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection. Wash hands thoroughly after handling. Use only in a hood or in a well-ventilated area. In case of inadequate ventilation, wear respiratory protection (P285).

Exposure guidelines: (as metal dust and fume) PEL 0.1 mg/m<sup>3</sup> (OSHA); TLV 0.02 mg/m<sup>3</sup> (ACGIH)

# SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Gray, black, metallic solid. Odorless.

Soluble: Nitric acid. Corrodes readily in air.

Boiling point: 2897 °C

Melting point: 1494 °C

Specific gravity: 8.92

### SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with acids and oxidizing agents.

Contact of cobalt dust with strong oxidizers may cause fire and explosions.

Shelf life: Indefinite, if stored properly.

### SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Irritating dust, lung irritation, chest pain, ORL-RAT LD<sub>50</sub>: 6171 mg/kg

and edema that may be fatal. IHL-RAT LC<sub>50</sub>: N.A. Chronic effects: Possible carcinogen. SKN-RBT LD<sub>50</sub>: N.A.

Target organs: N.A.

## SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #26a is one option.

# SECTION 14 — TRANSPORT INFORMATION

Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

## **SECTION 15 — REGULATORY INFORMATION**

TSCA-listed, EINECS-listed (231-158-0), RCRA code D001.

### SECTION 16 — OTHER INFORMATION

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PRODUCT(S).

N.A. = Not available, not all health aspects of this substance have been fully investigated.

N/A = Not applicable

Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.

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