Storage-0

0 is low hazard, 3 is high hazard

## SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

## Cobalt Sulfate

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

CHEMTREC Emergency Phone Number: (800) 424-9300

## SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS

Cobalt sulfate Synonym: Cobalt (II) sulfate, Cobaltous sulfate. CAS#: 10026-24-1

## SECTION 3 — HAZARDS IDENTIFICATION

Red-pink crystals. Odorless.FLINN AT-A-GLANCECobalt and cobalt compounds are possible human carcinogens (IARC-2B).Health-2Moderately toxic by ingestion or inhalation. Irritant to body tissues. May cause an allergic skin<br/>reaction. Avoid all body tissue contact.Flammability-0Reactivity-0<br/>Exposure-3Exposure-3

## SECTION 4 — FIRST AID MEASURES

Call a physician and seek medical attention for further treatment, observation, and support after first aid. Inhalation: Remove to fresh air at once. If breathing has stopped, give artificial respiration immediately. Eye or External: Immediately flush with fresh water for at least 15 minutes. Internal: Rinse mouth. Give large quantities of water for dilution. Call a physician or poison control at once.

SECTION 5 — FIRE FIGHTING MEASURES	
Nonflammable solid.	NFPA CODE
When heated to decomposition, may produce toxic fumes of Co and SO <sub>x</sub> .	None
Fire Fighting Instructions: Use a triclass, dry chemical fire extinguisher. Firefighters should wear PPE and	established
SCBA with full facepiece operated in positive pressure mode.	

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

FIDE FIGUTING MEASURES

Restrict unprotected personnel from the area. 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 #2. Store with acetates, halides, sulfates, sulfates, thiosulfates, and phosphates. Use and dispense in a hood.

## SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and a chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire). Exposure guidelines: TWA 0.05 mg/m<sup>3</sup> STEL 0.1 mg/m<sup>3</sup> (as Co) (ACGIH, ACGIH)

**MSDS #:** 258.00 **Revision Date:** February 2, 2012

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Red-pink crystals. Odorless. Solubility: Water soluble, slightly soluble in alcohols. Formula:  $CoSO_4$  7H<sub>2</sub>O Formula weight: 281.12

## SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with moisture. Shelf life: Indefinite, if stored properly.

#### SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Irritant. Chronic effects: N.A. Target organs: Lungs and thyroid. ORL-RAT  $LD_{50}$ : 424 mg/kg IHL-RAT  $LC_{50}$ : N.A. SKN-RBT  $LD_{50}$ : N.A.

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

## 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 #27f is one option.

#### SECTION 14 — TRANSPORT INFORMATION

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

#### SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (233-334-2).

#### SECTION 16 — OTHER INFORMATION

This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

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

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Specific gravity: 1.948

Melting point: 420 °C