SDS #: 255.60 Revision Date: March 25, 2014

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Cobalt Chloride Acidic Solution

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

CHEMTREC Emergency Phone Number: (800) 424-9300	Signal Word	DANGER	Pictograms
SECTION 2 — HAZARDS IDENTIFICATION			
Hazard class: Carcinogenicity (Category 1). May cause cancer (H350 (P201). Do not handle until all safety precautions have been read and protective equipment as required (P281).			
Hazard class: Acute toxicity, oral (Category 4). Harmful if swallowed using this product (P270). Hazard class: Sensitization, skin and respiratory (Category 1). May ca		·	
symptoms or breathing difficulties if inhaled (H317+H334). Avoid br Hazard class: Germ cell mutagenicity (Category 2). Suspected of cau	reathing dust or fume sing genetic defects	es (P261). (H341).	
Hazard class: Reproductive toxicity (Category 1). May damage fertili Hazard class: Skin corrosion or irritation (Category 1). Causes severe not breathe mist, vapors or spray (P260).	•		
Hazard class: Specific target organ toxicity, single exposure; respirator respiratory irritation (H335). Industrial exposure to hydrochloric acid vapors and mists is listed as			
(IARC-1).			

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Cobalt chloride	7791-13-1	CoCl ₂	129.84	7%
Hydrochloric acid	7647-01-0	HC1	36.46	14%
Water	7732-18-5	H_2O	18.00	79%
Synonym: Cobaltous chloride acidic solution				

SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell (P312).

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340). If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351 +P338). Immediately call a POISON CENTER or physician (P310). If on skin (or hair): Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353). Wash contaminated clothing before reuse (P363). If swallowed: Rinse mouth. Do NOT induce vomiting (P301+P330+P331).

SECTION 5 - FIRE FIGHTING MEASURES

Nonflammable, noncombustible solution. In case of fire: Use a tri-class dry chemical fire extinguisher. NFPA CODE None established

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Remove all ignition sources and ventilate area. Contain the spill with sand or other inert absorbent material, neutralize with sodium bicarbonate or calcium hydroxide, and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

Cobalt Chloride Acidic Solution

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #2. Store with acetates, halides, sulfates, sulfates, thiosulfates and phosphates.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Use only in a hood or well-ventilated area (P271). Evenesure guidelines: (or schedt) PEL 0.1 mg/m³ (OSHA): TLV 0.02 mg/m³ (ACGH)

pH: acidic

Exposure guidelines: (as cobalt) PEL 0.1 mg/m³ (OSHA); TLV 0.02 mg/m³ (ACGIH)

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Red/purple liquid. Odorless. A solution of cobalt(ous) chloride, hydrochloric acid, and water.

SECTION 10 — STABILITY AND REACTIVITY

Shelf life: Good, if stored properly.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Toxic, corrosive. Chronic effects: N.A. Target organs: N.A. ORL-RBT LD_{50} : 900 mg/kg (as concentrated HCl) IHL-RAT LC_{50} : 3124 ppm/1hour (as concentrated HCl) 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 #24b then #27f is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Hydrochloric acid. Hazard class: 8, Corrosive. UN number: UN1789.

N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

Not listed.

SECTION 16 — OTHER INFORMATION

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Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals. **Revision Date:** March 25, 2014