

GFS CHEMICALS, INC.

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MATERIAL SAFETY DATA SHEET

36

COBALT PERCHLORATE, HEXAHYDRATE

CHEMICAL NAME & SYNONYMS

Cobalt Perchlorate, Hexahydrate

DOT CLASS

5.1/II

SARA TITLE 313

Yes-Co Cmpds.

TSCA listed - Yes

FORMULA

Co(ClO₄)₃.6H₂O

REPORTABLE QUANTITY

N/A

F.W.

365.95

CAS#

13478-33-6 (hyd.)
13455-31-7 (anh.)

PHYSICAL DATA

Very soluble in water; pH of 5% solution 1-3; Hygroscopic.

APPEARANCE & ODOR

Typically violet crystals. Color can vary towards red or blue. Odorless. May appear damp.

REACTIVITY & CONDITIONS TO AVOID

Stable. Oxidizing. Contact with organic matter, strong reducing agents or concentrated acids. No self-reactivity. Hygroscopic, can dissolve in moisture absorbed from moist air.

FIRE HAZARDS

Will act as oxidizer when hot. May cause fire or explosion when heated with organic matter. Firefighters use SCBA.

EXTINGUISHER

Water Spray.

FLASHPOINT

N/A

LEL

N/A

UEL

N/A

HEALTH HAZARDS

May be irritating to skin, eyes and mucous membranes. May be harmful if swallowed or inhaled. Ingestion may cause vomiting. TD/LD no data found. OSHA PEL 0.1 mg (Co)/m³ as fumes or dust; ACGIH TLV TWA 0.02 mg (Co)/m³. The perchlorate ion has been shown to interfere with iodine uptake by the thyroid in test animals. Studies on workers in plants where perchlorate salts are manufactured have shown no thyroid abnormalities. Thyroid effects on humans continues to be studied. Experimental tumorigenic effects have been reported for cobalt compounds. Cobalt compounds have insufficient data to be classified as a human carcinogen.

SPECIAL PRECAUTIONS

Store away from organic materials and strong acids. Use goggles and rubber gloves while handling.

FIRST AID

Wash well with water. If eye irritation persists, get medical attention. If swallowed, give water to drink and get medical attention.

SPILLS & LEAKS

Sweep up and wash area thoroughly with water. Clean any mops used very thoroughly with water. Disposal to hazardous waste (as cobalt) Check local regulations for sewer use.

CATALOG #

36

PREPARED BY

MDM

DATE

May 16, 2005