

MATERIAL SAFETY DATA SHEET

Manufacturer: Strem Chemicals, Inc Strem Customer Service (978) 499-1600

7 Mulliken Way CHEMTREC (Emergency Only)

Newburyport, MA 01950-4098 U.S.A. Poison Center (800) 562-8236

(800) 424-9300

www.strem.com

Section 1: Product Identification

Chemical Name: Tetracobalt dodecacarbonyl, min. 98%

Product Number: 27-1950
CAS Registry Number: 17786-31-1
Formula: Co4(CO)12
EINECS Number: none

Chemical Family: metal carbonyl complexes
Synonym: Dodecacarbonyl tetracobalt

Section 2: Composition and Information on Ingredients

 Ingredient
 CAS Number
 Percent
 ACGIH (TWA)
 OSHA (PEL)

 Title Compound
 17786-31-1
 100%
 0.02mg/m3
 no data

Section 3: Hazards Identification

Emergency Overview: Vapor may be harmful. Inhalation may lead to headaches and dizziness. Limited evidence of a carcinogenic

effect.

Primary Routes of Exposure: Ingestion, inhalation

Eye Contact: May cause mild irritation to the eyes. Skin Contact: May cause mild irritation to the skin.

Inhalation: Inhalation could lead to dizziness and headache.

Ingestion: No information available on the effects from ingestion.

Acute Health Affects: Inhalation could lead to headache and dizziness.

Chronic Health Affects: Cobalt is a suspected carcinogen of the lungs and connective tissue.

NTP: No IARC: Yes OSHA: No

SECTION 4: First Aid Measures

Eye Exposure: Immediately flush the eyes with copious amounts of water for at least 15 minutes. A victim will need

assistance in keeping their eye lids open. Get immediate medical attention.

Skin Exposure: Wash the affected area immediately with water. Remove contaminated clothing if necessary. Seek medical

assistance if irritation persists.

Remove victim to fresh air immediately. Keep the victim lying down and warm. Give oxygen as soon as

 $possible. \ \ If shock occurs, respond with appropriate first aid. \ \ Transport the \ victim \ to \ a \ hospital.$

Ingestion: Seek medical attention immediately. Keep the victim calm. Give water to dilute the toxin (only if conscious).

Induce vomiting only if directed by medical personnel.



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SECTION 5: Fire Fighting Measures

Flash Point: not applicable
Autoignition Temperature: no data
Explosion Limits: no data

Extinguishing Medium: carbon dioxide, dry chemical or foam

Special Fire Fighting Procedures:

If involved in a fire, fire fighters should be equipped with a NIOSH-approved positive pressure self-contained

breathing apparatus.

Hazardous Combustion and carbon monoxide, carbon dioxide, and cobalt oxide dust.

Decomposion Products:

Ventilation:

Unusual Fire or Explosion Hazards: Flammable solid. No unusual fire or explosion hazards.

SECTION 6: Accidental Release Measures

Spill and Leak Procedures: Small quantities can be mixed with sodium carbonate or vermiculite and swept up.

SECTION 7: Handling and Storage

Handling and Storage: Store in a cool, dry, well-ventilated area away from heat and direct sunlight. Keep containers tightly sealed.

SECTION 8: Exposure Controls and Personal Protection

Eye Protection: Always wear approved safety glasses when handling chemical substances.

Skin Protection: Wear protective clothing and gloves. Consult with glove manufacturer to determine the proper type of glove.

Ventilation: This product should be handled in an efficient fume hood.

Respirator:

If ventilation is not available a respirator should be worn. The use of respirators requires a Respirator

Protection Program to be in compliance 29 CFR 1910.134. This product should be handled in an efficient fume hood.

Additional Protection: No additional protection required.

SECTION 9: Physical and Chemical Properties

Color and Form: black xtl. Molecular Weight: 571.85 Melting Point: 60° dec. Boiling Point: no data Vapor Pressure: no data Specific Gravity: 2.09 Odor: none Solubility in Water: Insoluble

SECTION 10: Stability and Reactivity

Stability: air sensitive, (store cold)
Hazardous Polymerization: no hazardous polymerization
Conditions to Avoid: prolonged exposure to air.
Incompatibility: Oxidizing agents and halogens

Decomposition Products: carbon dioxide, carbon monoxide, cobalt oxide



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SECTION 11: Toxicological Information

RTECS Data: No specific information available on this product.

Carcinogenic Effects: No data available
Mutagenic Effects: No data available
Tetratogenic Effects: No data available

SECTION 12: Ecological Information

Ecological Information: No information available.

SECTION 13: Disposal Considerations

Disposal: Dispose of this material according to local, state and federal regulations.

SECTION 14: Transportation

Shipping Name (CFR): Flammable solids, inorganic, N.O.S.

Hazard Class (CFR): 4.1
Additional Hazard Class (CFR): NA
Packaging Group (CFR): II

UN ID Number (CFR): UN# 3178

Shipping Name (IATA): Flammable solid, inorganic, N.O.S.

Hazard Class (IATA): 4.1
Additional Hazard Class (IATA): NA
Packaging Group (IATA): II

UN ID Number (IATA): UN# 3178

SECTION 15: Regulatory Information

TSCA: Not listed in the TSCA inventory.

SARA (Title 313): Title compound: See Category Code N096 for reporting.

Second Ingredient: none Third Ingredient: none

SECTION 16: Other Information

The information herein is believed to be accurate and reliable as of the date compiled. However, Strem

Disclaimer: Chemicals, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information

contained in this document or any use of the product based on this information.

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Strem Chemicals, Inc.

7 Mulliken Way

Newburyport, MA 01950-4098 USA

Tel: (978) 499 1600 Fax: (978) 465 3104 Toll free (in USA & Canada)

Tel: (800) 647 8736 Fax: (800) 517 8736 info@strem.com Strem Chemicals, Inc. 15, rue de l'Atome, Z.I. 67800 BISCHHEIM (France) Tel: (33) 03 88 62 52 60 Fax: (33) 03 88 62 26 81

info.europe@strem.com

Strem Chemicals, Inc. Postfach 1215 77672 KEHL (Germany) Telefon: 0 78 51/ 7 58 79

info.europe@strem.com

Strem Chemicals UK, Ltd.

Newton Hall Town Street Newton

Cambridge, England CB22 7ZE

Tel: 0845 643 7263 Fax: 0845 643 7362 enquiries@strem.co.uk