Material Safety Data Sheet

Section 1 - Product and Company Information

Product Name: Mercury(II) tetrathiocyanatocobaltate(II), 99.99%
Product Number: 253664
Brand: Aldrich Chemical
Company: Sigma-Aldrich
Street Address: 3050 Spruce Street
City, State, Zip, Country: SAINT LOUIS, MO 63103 US
Technical Phone: 314 771 5785
Emergency Phone: 414 273 3600 Ext. 5996
Fax: 800 325 5032

Section 2 - Composition/Information on Ingredient

Substance Name: MERCURY(II) TETRATHIOCYANATOcobaltate(II), 99.99%
CAS #: 27665-51-4
SARA 313: Yes
EC no: 248-602-4
Annex I Index Number: HgCo(2)CN4

Section 3 - Hazards Identification


For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

Immediate Treatment - Work Site:
In case of contact, immediately flush eyes or skin with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes.

Oral Exposure: If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.

Inhalation Exposure: If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Section 5 - Fire Fighting Measures

Autoignition Temp: N/A

Extinguishing Media: Suitable Noncombustible. Use extinguishing media appropriate to surrounding fire conditions.

Firefighting Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s): Exits toxic fumes under fire conditions.

Exposure Hazard(s): Material Irritant.

Section 6 - Accidental Release Measures

Procedure to be Followed in Case of Leak or Spill: Evacuate area.

Procedure(s) of Personal Precaution(s): Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves. Wear disposable coveralls and discard them after use.

Methods for Cleaning Up: Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

Handling: Tube Exposure
Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid all contact.

Storage: Suitable
Keep tightly closed. Store in a cool dry place.

Section 8 - Exposure Controls / PPE

Engineering Controls: Safety shower and eye bath. Use only in a chemical fume hood.

Personal Protective Equipment: Other
Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

General Hygiene Measures: Wash thoroughly after handling. Wash contaminated clothing before reuse.

Section 9 - Physical/Chemical Properties

Appearance: 491.85 AMU

pH: N/A
BP/VP Range: N/A
MP/MP Range: N/A

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Section 10 - Stability and Reactivity

Stability
- Materials to Avoid: Strong oxidizing agents, strong acids.

Hazardous Decomposition Products
- Carbon monoxide, Carbon dioxide, Nitrogen oxides, Sulfur oxides, Mercury/mercury oxides.

Section 11 - Toxicological Information

Route of Exposure
- Inhalation: Material is irritating to mucous membranes and upper respiratory tract. May be fatal if inhaled, swallowed, or absorbed through skin. Causes eye and skin irritation.
- Target Organ(s) or System(s): Kidneys. G.I. System. Nerves.
- Conditions Aggravated by Exposure: May cause nervous system disturbances.
- RTECS Number: N/A

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation
- Treat a dilute basic solution (pH 10-11) of the material with a 50% excess of commercial laundry bleach. Control the temperature by the addition rate of bleach and adjust pH if necessary. Let stand overnight. Gently adjust solution to pH 7. Vigorous evolution of gas may occur. Filter any solids for burial in a chemical landfill. Precipitate any heavy metals by addition of sulfides and isolate for burial. Additional equivalents of hypochlorite may be needed if the metal can be oxidized to a higher valence state. For metal carbonyls, the reaction should be carried out under nitrogen. Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT
- Proper Shipping Name: Mercury compounds, solid, n.o.s.
- UN# 2025
- Class: 5.1
- Packing Group: Packing Group II
- Hazard Label: Toxic substances.
- PHN: Not PHN

IATA
- Proper Shipping Name: Mercury compound, solid, n.o.s.
- IATA UN Number: 2025
- Hazard Class: 5.1
- Packing Group: II

Section 15 - Regulatory Information

EU Additional Classification
- Symbol of Danger: T
- Indication of Danger: Toxic
- Toxic Statements: R: 23/24/25 26/37/39
- Safety Statements: S: 22 29 36/37/39 45
- Do not breathe dust. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

US Classification and Label Text
- Indication of Danger: Highly Toxic (USA) Toxic (EU).
- Risk Statements: Toxic by inhalation, in contact with skin and if swallowed. Initiating to eyes, respiratory system and skin.
- Safety Statements: Do not breathe dust. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

United States Regulatory Information
- SARA Listed: Yes
- Notes: This product is subject to SARA section 313 reporting requirements. This product is subject to SARA section 313 reporting requirements.

United States - State Regulatory Information
- California Prop 65: This product contains chemical(s) known to the state of California to cause developmental toxicity.

Canada Regulatory Information
- WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
- DSL: Yes
- NDSL: No
Section 16 - Other Information

Disclaimer
For R&D use only. Not for drug, household or other uses.

Warranty
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2004 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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