Material Safety Data Sheet
Mercury thiocyanatocobaltate(ii), 99%

MSDS# 14067

Section 1 - Chemical Product and Company Identification

MSDS Name: Mercury thiocyanatocobaltate(ii), 99%
Catalog Numbers: AC413680000, AC413680050, AC413680250, AC413681000
Synonyms: Cobalt tetrathiocyanatomercurate(II)

Company Identification:
Acros Organics BVBA
Janssen Pharmaceuticaalaaan 3a
2440 Geel, Belgium

Company Identification: (USA)
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

For information in the US, call: 800-ACROS-01
For information in Europe, call: +32 14 57 52 11
Emergency Number, Europe: +32 14 57 52 99
CHEMTREC Phone Number, US: 800-424-9300
CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#: 27685-51-4
Chemical Name: Mercury thiocyanatocobaltate(ii)
%: 99%
EINECS#: 248-602-4

Hazard Symbols: T+ N
Risk Phrases: 26/27/28 33 50/53

Section 3 - Hazards Identification

EMERGENCY OVERVIEW
Not available Target Organs: Kidneys, gastrointestinal system, nervous system.

Potential Health Effects

Eye: May cause eye irritation.
Skin: May be fatal if absorbed through the skin.
Ingestion: May be fatal if swallowed.
Inhalation: May be fatal if inhaled.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while
removing contaminated clothing and shoes.

Ingestion: Call a poison control center. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician:

Section 5 - Fire Fighting Measures

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion.

Extinguishing Media: Use water spray to cool fire-exposed containers. Use water spray, dry chemical, carbon dioxide, or chemical foam.

Autoignition Temperature: Not available
Flash Point: Not available
Explosion Limits: Lower: Not available
Explosion Limits: Upper: Not available
NFPA Rating: Not published

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions.

Section 7 - Handling and Storage

Handling: Minimize dust generation and accumulation. Do not breathe dust, mist, or vapor. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood.

Storage: Store in a cool, dry place. Store in a tightly closed container. Poison room locked.

Section 8 - Exposure Controls, Personal Protection

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA - Final PELs</th>
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<tbody>
<tr>
<td>Mercury thiocyanatocobaltate(II)</td>
<td></td>
<td></td>
<td>None listed</td>
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<tr>
<td></td>
<td>0.1 mg/m3 TWA (as Hg) (listed under Mercury, organo alkyls, as aryl and Hg) (listed inorganic under Mercury compounds).Skin compounds).10 - potential mg/m3 IDLH (as significant Hg, except contribution to Organo(alkyl) overall exposure compounds) by the cutaneous (listed under r oute (listed Mercury under Mercury, compounds). aryl and</td>
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OSHA Vacated PELs: Mercury thiocyanatocobaltate(II): None listed

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Personal Protective Equipment
Eyes: Not available
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to prevent skin exposure.
Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a Respirators: NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Powder
Color: dark blue
Odor: Not available
pH: Not available
Vapor Pressure: Not available
Vapor Density: Not available
Evaporation Rate: Not available
Viscosity: Not available
Boiling Point: Not available
Freezing/Melting Point: Not available
Decomposition Temperature: Not available
Solubility in water: insoluble
Specific Gravity/Density:
Molecular Formula: Hg(Co(SCN)4)
Molecular Weight: 491.85

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: High temperatures, incompatible materials.
Incompatibilities with Other Materials: Not available
Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 27685-51-4: None listed
LD50/LC50: RTECS: Not available.
Carcinogenicity: Mercury thiocyanatocobaltate(II) - IARC: Group 2B carcinogen (Cobalt compounds).
Other: The toxicological properties have not been fully investigated.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

US DOT
Shipping Name: MERCURY COMPOUNDS, SOLID, N.O.S.
Hazard Class: 6.1
UN Number: UN2025
Packing Group: II
Canada TDG
Shipping Name: Not available
Hazard Class: Not available
UN Number: Not available
Packing Group: Not available
Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T+N

Risk Phrases:

R 26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.
R 33 Danger of cumulative effects.
R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S 13 Keep away from food, drink and animal feeding stuffs.
S 28A After contact with skin, wash immediately with plenty of water.
S 36 Wear suitable protective clothing.
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S 60 This material and its container must be disposed of as hazardous waste.
S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

WGK (Water Danger/Protection)

CAS# 27685-51-4: Not available

Canada

CAS# 27685-51-4 is listed on Canada's DSL List
Canadian WHMIS Classifications: Not available
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.
CAS# 27685-51-4 is not listed on Canada's Ingredient Disclosure List.

US Federal

TSCA

CAS# 27685-51-4 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 9/02/1997
Revision #5 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.