



## Material Safety Data Sheet



## HMIS

|               |   |
|---------------|---|
| Health Hazard | 2 |
| Fire Hazard   | 0 |
| Reactivity    | 1 |

## PPE (See Section 15)



## Section 1. Chemical Product and Company Identification

|                            |   |   |           |
|----------------------------|---|---|-----------|
| Common Name/<br>Trade Name | <b>Phosphonic Test</b>  | Code  | RE2142    |
|                            |   | CAS #   | 3017-60-5 |
| Manufacturer               | HazTech Systems, Inc.<br>P.O. Box 929<br>Mariposa, CA 95338   | RTECS   |           |
|                            |   | TSCA  |           |
| Commercial Name            | Cobalt (II) thiocyanate   |   |           |
| Synonym                    |   | CI #  |           |
| Chemical Name              | Cobalt (II) thiocyanate   | In case of emergency contact CHEMTREC<br>(24 hours) at 800-424-9300 |           |
| Chemical Family            |   | HazTech Systems, Inc. 800-337-2497                                  |           |
| Chemical Formula           |   | Alfa Aesar 978-521-6300   |           |
| Supplier                   | Alfa Aesar, A Johnson Matthey Company<br>Johnson Matthey Catalog Company, Inc. <input type="checkbox"/><br>30 Bond Street<br>Ward Hill, MA 01835-8099 |   |           |

## Section 2. Composition and Information on Ingredients

| Name                             | CAS #     | TWA (mg/m3) | Exposure Limits |              |  | % by Weight |
|----------------------------------|-----------|-------------|-----------------|--------------|--|-------------|
|                                  |           |             | STEL            | CEIL (mg/m3) |  |             |
| Cobalt (II) thiocyanate, hydrate | 3017-60-5 |             |                 |              |  |             |

Toxicological Data on Ingredients Primary irritant effect on the skin: Irritant to skin and mucous membranes. On the eye: Irritating effect.   
Sensitization possible through skin contact.

## Section 3. Hazards Identification

Potential Acute R 43 - May cause sensitization by skin contact.  
Health Effects  R 68 - Possible risk of irreversible effects.  
  
  
Potential Chronic Not available.  
Health Effects

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## Section 4. First Aid Measures

Eye Contact  Rinse opened eye for several minutes under running water. Then consult a doctor.

Skin Contact  Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.

Serious Skin Contact  Not available.

Inhalation  Supply fresh air and to be sure, call a doctor.

Serious Inhalation  Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.

Ingestion  Seek immediate medical advice.

Serious Ingestion  Not available.

## Section 5. Fire and Explosion Data

## Flammability

Auto-Ignition Temperature  Not determined.

Flash Point  Not applicable.

Flammable Limits

Products of Combustion  In case of fire, the following can be released: Metal oxide, Nitrogen oxides (NO<sub>x</sub>), Sulfur dioxide (SO<sub>2</sub>), Hydrogen cyanide (HCN)

Fire Hazards in Presence of Various Substances

Explosion Hazards in Presence of Various Substances

Fire Fighting Media and Instructions  Suitable extinguishing methods: CO<sub>2</sub>, sand, extinguishing powder. Do not use water.   
Unsuitable extinguishing methods: Water.

Special Remarks on Fire Hazards

Special Remarks on Explosion Hazards  Product does not present an explosion hazard.

## Section 6. Accidental Release Measures

Do not allow material to be released into the environment without proper government permits. Dispose of contaminated material as  waste. Recommended cleansing agent: Water.

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## Section 7. Handling and Storage

**Precautions** This product is hygroscopic. Protect from humidity and water. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers.

**Storage** Do not store together with oxidizing and acidic materials. Store away from water/moisture.

## Section 8. Exposure Controls/Personal Protection

**Engineering Controls** Properly operating chemical fume hood designed for hazardous chemicals and having an average velocity of at least 100 feet per minute.

**Personal Protection** Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately Wash hands before breaks and at the end of work. Use suitable respirator when high concentrations are present. gloves, safety glasses and protective work clothing.

**Personal Protection in Case of a Large Spill**

**Exposure Limits** 0.1 mg/m3 (dust and fume)

## Section 9. Physical and Chemical Properties

|                               |                 |                        |                 |
|-------------------------------|-----------------|------------------------|-----------------|
| Physical State and Appearance | Powder          | Volatility             | Not determined. |
| Molecular Weight              | Not determined. | Odor Threshold         | Not determined. |
| pH (1% Solution in Water)     | Not determined. | Water/Oil Dist. Coeff. | Not determined. |
| Boiling Point                 | Not determined. | Ionicity (in Water)    | Not determined. |
| Melting Point                 | Not determined. | Dispersion Properties  | Not determined. |
| Critical Temperature          | Not determined. | Solubility in water    | Soluble.        |
| Specific Gravity              | Not determined. | Odor                   | Not determined. |
| Vapor Pressure                | Not determined. | Taste                  | Not determined. |
| Vapor Density                 | Not determined. | Color                  | Violet          |

## Section 10. Stability and Reactivity Data

**Stability** Not available.

**Instability Temperature** Not available.

**Conditions of Instability** Reacts violently with oxidizing agents.

**Incompatibility with Various Substances** Materials to be avoided: Acids, oxidizing agents, water/moisture.

**Corrosivity** Not available.

**Special Remarks on Corrosivity** Not available.

**Polymerization** Not available.

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**Section 11. Toxicological Information**

Route of Entry Eye contact, inhalation, ingestion.

Toxicity to Animals Agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histologic type(s), or by mechanism(s) not considered relevant to worker exposure. Available epidemiologic studies do not confirm an  increased risk of cancer in exposed humans.

Chronic Effects on Humans Chronic ingestion may result in pericardial effusion, polycardial effusion, polycythemia, cardiac failure, vomiting, convulsions and thyroid enlargement.

Other Toxic Effects on Humans

Special Remarks on Toxicity to Animals 

Special Remarks on Chronic Effects on Humans

Special Remarks on Other Toxic Effects on Humans Available evidence suggests that the agent is not likely to cause  cancer in humans except under uncommon or unlikely routes of  levels of exposure.**Section 12. Ecological Information**

Ecotoxicity

BOD5 and COD

Products of Biodegradation

Toxicity of the Products of Biodegradation

Special Remarks on the Products of Biodegradation Do not allow material to be released to the environment without proper  governmental permits.**Section 13. Disposal Considerations**

Waste Disposal Water, if necessary with cleansing agents. Consult state, local or national regulations to ensure proper disposal.

**Section 14. Transport Information**

DOT Classification None.

Identification Xn Harmful

Special Provisions for Transport None.

DOT (Pictograms) None.

**Section 15. Other Regulatory Information and Pictograms**Federal and State Regulations  All components of this product are listed in the U.S. Environmental Protection Agency Toxic  Substances Control Act Chemical Substance Inventory.

California Proposition 65 Warnings

Other Regulations For use only by technically qualified individuals. This product contains cobalt and is subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 and  40CFR372.

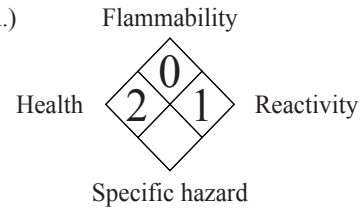
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## Other Classifications

## HMIS (U.S.A.)

|               |   |
|---------------|---|
| Health Hazard | 2 |
| Fire Hazard   | 0 |
| Reactivity    | 1 |

National Fire Protection  
Association (U.S.A.)WHMIS (Canada)  
(Pictograms)DSCL (Europe)  
(Pictograms)TDG (Canada)  
(Pictograms)ADR (Europe)  
(Pictograms)

Protective Equipment    36/37 Wear suitable protective clothing and gloves.

## Section 16. Other Information

## Catalog Number(s)

## References

Other Special Considerations    Employer should use this information only as a supplement to other information gathered by them,   
and should make independent judgement of suitability of this information to ensure proper use and   
protect the health and safety of employees.

Validated by    Department issuing MSDS: Health, Safety and Environmental Department.

Verified by

Call 1-800-543-5487

## Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.