

LTS Research Laboratories, Inc. Safety Data Sheet Cobalt Sulfide

1. Product and Company Identification

Trade Name: Cobalt Sulfide

Chemical Formula: CoS

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 2001 Oaks Pkwy

City: Belmont
State: North Carolina
Zip Code: 28012

Zip Code: 2801: Country: USA

Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

2. Hazards Identification

Signal Word: Danger



Hazard Statements: H317: May cause an allergic skin reaction

H350: May cause cancer

Precautionary Statements: P202: Do not handle until all safety precautions have been read and

understood

P261: Avoid breathing dust/fume/gas/mist/vapors/spray

P272: Contaminated work clothing should not be allowed out of the

workplace

P280: Wear protective gloves/protective clothing/eye protection/face

protection

P281: Use personal protective equipment as required P302+P352: IF ON SKIN: Wash with soap and water

P308+P313: IF exposed or concerned: Get medical advice/attention P332+P313: If skin irritation occurs: Get medical advice/attention

P363: Wash contaminated clothing before reuse

P405: Store locked up

P501: Dispose of contents/container in accordance with local/regional/

national/international regulations

HMIS Health Ratings (0-4):

Health: 2
Flammability: 0
Physical: 0

3. Composition

Chemical Family: Sulfide Additional Names: None Cobalt Sulfide (CoS) Percentage: 100 wt% CAS No: 1317-42-6 EC No: N/A 4. First Aid Procedures General Treatment: Seek medical attention if symptoms persist. Special Treatment: None **Important Symptoms:** N/A Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult. Seek medical attention. Ingestion: Rinse mouth with water. Do not induce vomiting. Seek medical Skin: Wash affected area with mild soap and water. Remove any contaminated clothing. Seek medical attention. Flush eyes with water, blinking often for several minutes. Remove Eyes: contact lenses if present and easy to do. Continue rinsing. Seek medical attention. 5. Firefighting Measures Flammability: Non-flammable - Research No special restrictions - use suitable extinguishing agent for Extinguishing Media: surrounding material and type of fire. Do not use water for metal fires – use CO₂, sand, extinguishing powder. Spec. Fire Fighting Procedure: Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for decomposition products. 6. Accidental Release Measures Wear appropriate respiratory and protective equipment specified in If Material Is Released/Spilled: special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust. **Environmental Precautions:** Isolate runoff to prevent environmental pollution. 7. Handling and Storage **Handling Conditions:** Wash thoroughly after handling. **Storage Conditions:** Store in a cool dry place in a tightly sealed container. Store apart from materials and conditions listed in section 10. Do not use tobacco or food in work area. Wash thoroughly before Work/Hygienic Maintenance: eating and smoking. Do not blow dust off clothing or skin with compressed air. Provide sufficient ventilation to maintain concentration at or below Ventilation: threshold limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: N/A

Threshold Limit Value: 0.02 mg/m³ as CoS, long-term value

Special Equipment: None

Respiratory Protection:
Protective Gloves:

Dust Respirator
Rubber gloves

Check gloves prior to each use

Eye Protection: Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics

Color Red

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor:
Water Solubility:
N/A
Boiling Point:
Melting Point:
Flash Point:
N/A
Autoignition Temperature:
N/A
N/A
N/A

Molecular weight: 91.00 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Oxidizing agents or atomes, no.

Incompatible Conditions: None

Hazardous Decomposition Products: None under recommended use conditions

11. Toxicological Information

Potential Health Effects:

Eyes: May cause irritation

Skin: May cause an allergic skin reaction

Ingestion: May cause irritation Inhalation: May cause irritation

Chronic: N/A

Signs & Symptoms: N/A
Aggravated Medical Conditions: N/A

Median Lethal Dose: 5000 mg/kg for rat by mouth

Carcinogen: N/A

12. Ecological Information

Aquatic Toxicity: Very toxic to aquatic life with long lasting effects

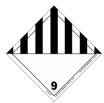
Persistent Bioaccumulation Toxicity: N/A
Very Persistent, Very Bioaccumulative: N/A
Notes: N/A

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous for transportation



Hazard Class: 9
Packing Group: III
UN Number: UN3077

Proper Shipping Name: Environmentally hazardous substances, solid, n.o.s. (Cobalt (II)

Sulfide)

15. Regulatory Information

Sec 302 Extremely Hazardous:N/ASec 304 Reportable Quantities:N/ASec 313 Toxic Chemicals:Yes

16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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