

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Cobalt Disulfide

Chemical Formula: CoS₂

Manufacturer Item Number: CO-1590

Manufacturer: Lorad Chemical Corporation
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2. HAZARD IDENTIFICATION

Signal Word: Warning

Pictograms:



Hazard Statements: H317 May cause an allergic skin reaction
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements: P261 Avoid breathing dust / fumes / gas / mist / vapors / spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment
P280 Wear protective gloves.
P302 + P352 If on skin, wash with plenty of soap and water.
P333 + P313 If skin irritation or rash occurs, get medical advice / attention.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.
P501 Dispose of contents / container to an approved waste disposal plant.

HMIS Health Ratings (0-4)

- Health: 2*
- Flammability: 0
- Physical: 0

3. COMPOSITION

Additional Names: Cobalt Disulphide; Cobalt(IV) Sulfide

Percentage: 100 wt%

CAS #: 12013-10-4

EC #: 215-273-3

4. FIRST AID PROCEDURES

General Treatment	Consult a physician. Show this SDS to the doctor in attendance. Move out of dangerous area.
Special Treatment:	No data available.
Important Symptoms:	The most important known symptoms and effects are described in labeling Section 2.
Inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Ingestion:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Skin:	Wash off with soap and plenty of water. Consult a physician.
Eyes:	Flush eyes with water as a precaution.

5. FIREFIGHTING MEASURES

Flammability:	No data available.
Special Hazards from Substance:	Sulphur oxides, Cobalt, Cobalt oxides
Extinguishing Media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

If Material is Released / Spilled:	Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. If personal protection, see Section 8.
Environmental Precautions:	Prevent further leakage or spillage if safe to do. Do not let product enter drains. Discharge into the environment.

7. HANDLING AND STORAGE

Handling Conditions:	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see Section 2.
Storage Conditions:	Keep container tightly closed in a dry and well-ventilated place. Moisture sensitive, keep in a dry place.
Work / Hygienic Maintenance:	Moisture sensitive, work with under inert atmosphere.
Ventilation:	Keep in well ventilated place.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible Exposure Limits:	No data available.
Threshold Limit Value:	No data available.
Special Equipment:	No data available.

Respiratory Protection:	For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Protective Gloves:	Handle with gloves. Gloves must be inspected prior to use. use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Eye Protection:	Face shield and safety glasses. Use equipment for eye protection tested and approved under government standards such as NIOSH (US) or EN 166(EU).
Body Protection:	No data available.

9. PHYSICAL AND CHEMICAL CHARACTERISTICS

Color:	dark gray
Forms:	powder
Odor:	No data available.
Water Solubility:	No data available.
Boiling Point:	No data available.
Melting Point:	> 400°C (>752°F)
Flash Point:	Not applicable.
Autoignition Temperature:	No data available.
Density:	4.3 g/cm ³
Molecular Weight:	123.06 g/mol

10. REACTIVITY

Stability:	Stable under recommend storage conditions.
Reacts with:	No data available.
Incompatible Conditions:	Strong oxidizing agents.
Hazardous Decomposition Products:	No data available.

11. TOXICOLOGICAL INFORMATION

Potential Health Effects:	
- Eyes	No data available.
- Skin	No data available.
- Ingestion	No data available.
- Inhalation	No data available.
- Chronic	No data available.
Signs and Symptoms:	No data available.
Aggravate Medical Conditions:	No data available.

Median Lethal Dose:	No data available.
Carcinogen:	<p>IARC: 2B - Group 2B: Possibly carcinogenic to humans</p> <p>NTP: No component of this product presents at levels greater than or equal to 0.1% is identified as known or anticipated carcinogen by NTP.</p> <p>OSHA: No component of this product presents at levels greater than or equal to 0.1% is identified as known or anticipated carcinogen by OSHA.</p>

12. ECOLOGICAL INFORMATION

Aquatic Toxicity:	Ver toxic to aquatic life.
Persistence and degradability:	No data available.
Bioaccumulative potential:	No data available.
Notes:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. DISPOSAL CONSIDERATIONS

Disposal:	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose of contaminated packaging.
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14. TRANSPORTATION DATA

Hazardous:	<p>DoT: Not Dangerous Goods.</p> <p>IMDG: Environmentally hazardous substance</p> <p>IATA: Environmentally hazardous substance</p>
Pictogram:	None.
Hazard Class:	9
Packing Group:	III
UN Number:	3077
Proper Shipping Name:	<p>DoT: Not Dangerous Goods.</p> <p>IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cobalt(IV) sulfide, ≥99.5% trace metals basis)</p> <p>IATA: Environmentally hazardous substance, solid n.o.s. (Cobalt(IV) Sulfide, ≥ 99.5% trace metals basis)</p>
Notes:	EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packaging containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

15. REGULATORY INFORMATION

SARA 302 Components	No chemical in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components	This material does not contain any chemical components with known CAS numbers that exceed the threshold (de minimus) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards	Acute Health Hazard, Chronic Health Hazard
Massachusetts Right to Know Components	No components are subject to Ma. Right to Know Act.
Pennsylvania Right to Know Components	Cobalt(IV) Sulfide, $\geq 99.5\%$ trace metals basis (CAS No. 12013-10-4)
New Jersey Right to Know Components	Cobalt(IV) Sulfide, $\geq 99.5\%$ trace metals basis (CAS No. 12013-10-4)
California Prop. 65 Components	This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Copyright 2017 Lorad Chemical Corporation. 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 regards to appropriate safety standards. It does not represent a guarantee of the properties of the product. Lorad Chemical Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

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