

# LTS Research Laboratories, Inc. Safety Data Sheet Cobalt Manganese

## 1. Product and Company Identification

Trade Name: Cobalt manganese

Chemical Formula: Co-Mn

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 37 Ramland Road
City: Orangeburg
State: New York
Zip Code: 10962
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

H228: Flammable solid

H334: May cause allergy or asthma symptoms or breathing difficulties

if inhaled

Precautionary Statements: P260: Do not breathe dust/fume/gas/mist/vapours/spray

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

protection

P210: Keep away from heat/sparks/open flames/hot surfaces - No

smoking

P240: Ground/bond container and receiving equipment

P241: Use explosion-proof electrical/ventilating/lighting/equipment

P284: Wear respiratory protection

P342+P311: If experiencing respiratory symptoms: Call a POISON

CENTER or doctor/physician

P370+P378: In case of fire: Use CO<sub>2</sub>, powder, sand for extinction

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health:
Flammability:
Physical:
Powder
Bulk
1
0
1
0

3. Composition		
Chemical Family: Additional Names:	Metal alloy None	
Cobalt (Co):		
Percentage:	0-100 wt%	
CAS #:	7440-48-4	
EC#:	231-158-0	
Manganese (Mn): Percentage:	0-100 wt%	
CAS #:	7439-96-5	
EC #:	231-105-1	
	4. First Aid Procedures	
General Treatment:	Seek medical attention if symptoms persist.	
Special Treatment:	None	
Important Symptoms:	None	
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.	
Ingestion:	Give one to two glasses of water and induce vomiting. Never induce	
	vomiting or give anything by mouth to an unconscious person.	
Skin:	Wash affected area with mild soap and water. Remove any	
F	contaminated clothing.	
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing	
	5. Firefighting Measures	
Flammability:	Non-flammable, except as powder	
Extinguishing Media:	Do not use water for metal fires – use CO <sub>2</sub> , 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	
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in	
	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	
Work/Hygienic Maintenance:	materials and conditions listed in section 10.  Do not use tobacco or food in work area. Wash thoroughly before	
	eating and smoking. Do not blow dust off clothing or skin with	
	compressed air.	
Ventilation:	Provide sufficient ventilation to maintain concentration at or below	

## 8. Exposure Controls and Personal Protection

Permissible Exposure Limits:  $0.1 \text{ mg/m}^3$  as Co, long-term value Threshold Limit Value:  $0.02 \text{ mg/m}^3$  as Co, long-term value

Special Equipment: None

Respiratory Protection: Use a respirator with type P100 (USA) or P3 (EN143) cartridges as a

backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government

standards.

Protective Gloves: Rubber gloves

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 Grey

Form: Sputtering target Odor: Odorless Water Solubility: Insoluble Boiling Point: N/A

Melting Point: 1245-1495 °C

Flash Point: N/A
Autoignition Temperature: N/A
Density: N/A

Molecular weight:

# 10. Reactivity

Stability: Stable under recommended storage conditions

None

N/A

Reacts With: Acids, Oxidizing agents

Incompatible Conditions:

Hazardous Decomposition Products: Metal oxide fume, Manganese oxides

#### 11. Toxicological Information

Potential Health Effects:

Eyes:Causes irritating effectSkin:May cause irritationIngestion:May cause irritationInhalation:May cause irritation

Chronic: N/A

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

Median Lethal Dose: 6171 mg/kg for rat by mouth as Co

Carcinogen: IARC-2B: Possibly carcinogenic to humans: limited evidence in human

in the absence of sufficient evidence in experimental animals.

ACGIH A3: Animal carcinogen: Agent is carcinogenic in experimental animals at a relatively high dose, by routes of administration, at sites, of histologic types, or by mechanisms not considered relevant to worker exposure. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans. Available evidence suggests that the agent is not likely to cause cancer in humans except under uncommon

or unlikely routes or level of exposure.

	12. Ecological Information
Aquatic Toxicity:	Low
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	No

## 13. Disposal Considerations

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

N/A

#### 14. Transportation Data

Hazardous: Hazardous as powder only.



Hazard Class: 4.1 Flammable solids, self-reactive substances and solid desensitized

explosives

Packing Group: III UN Number: UN3089

Notes:

Proper Shipping Name: Metal powders, flammable, n.o.s. (Cobalt manganese)

## 15. Regulatory Information

Sec 302 Extremely Hazardous:
Sec 304 Reportable Quantities:
No Reportable N/A

Sec 313 Toxic Chemicals: Components

#### 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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