

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

Trade Name: Chemical Formula: Recommended Use: Manufacturer/Supplier: Street: City: State:	Cobalt carbonyl Co <sub>2</sub> (CO) <sub>8</sub> Scientific research and development LTS Research Laboratories, Inc. 2001 Oaks Pkwy Belmont North Carolina 28012 USA
Recommended Use: Manufacturer/Supplier: Street: City:	Scientific research and development LTS Research Laboratories, Inc. 2001 Oaks Pkwy Belmont North Carolina 28012
Manufacturer/Supplier: Street: City:	LTS Research Laboratories, Inc. 2001 Oaks Pkwy Belmont North Carolina 28012
Street: City:	2001 Oaks Pkwy Belmont North Carolina 28012
City:	Belmont North Carolina 28012
	North Carolina 28012
State:	28012
Zip Code:	
Country:	
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:	H251: Self-heating; may catch fire H302: Harmful if swallowed H315: Causes skin irritation
	H317: May cause an allergic skin reaction
	H330: Fatal if inhaled
	H351: Suspected of causing cancer
	H361: Suspected of damaging fertility or the unborn child
	H373: May cause damage to organs (Nervous system) through
	prolonged or repeated exposure if inhaled H412: Harmful to aquatic life with long lasting effects
Precautionary Statements:	P202: Do not handle until all safety precautions have been read and understood
	P235 + P410: Keep cool. Protect from sunlight
	P260: Do not breathe dust/ fume/ gas/ mist/ vapors/ spray
	P264: Wash skin thoroughly after handling
	P270: Do not eat, drink or smoke when using this product
	P271: Use only outdoors or in a well-ventilated area
	P272: Contaminated work clothing must not be allowed out of the
	workplace
	P273: Avoid release to the environment
	P280: Wear protective gloves/ protective clothing/ eye protection/ face
	protection P284: Wear respiratory protection
	P284: Wear respiratory protection.
	P301 + P312 + P330: IF SWALLOWED: Call a POISON CENTER/
	doctor if you feel unwell. Rinse mouth P302 + P352: IF ON SKIN: Wash with plenty of soap and water
	P302 + P352: IF ON SKIN: Wash with plenty of soap and water P304 + P340 + P310: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor

	<ul> <li>P308 + P313: IF exposed or concerned: Get medical advice/ attention</li> <li>P333 + P313: If skin irritation or rash occurs: Get medical advice/ attention</li> <li>P362: Take off contaminated clothing and wash before reuse</li> <li>P403 + P233: Store in a well-ventilated place. Keep container tightly closed</li> </ul>	
	<ul> <li>P403 + P235: Store in a well-ventilated place. Keep cool</li> <li>P405: Store locked up</li> <li>P407: Maintain air gap between stacks/ pallets</li> <li>P420: Store away from other materials</li> <li>P501: Dispose of contents/container in accordance with local/regional/national/international regulations</li> </ul>	
HMIS Health Ratings (0-4):		
Health:	N/A	
Flammability:	N/A	
Physical:	N/A	
	3. Composition	
Chemical Family:	Organometallic	
Additional Names:	Dicobalt Octacarbonyl	
Cobalt carbonyl (Co <sub>2</sub> (CO) <sub>8</sub> )	100	
Percentage: CAS #:	100 wt% 10210-68-1	
EC #:	233-514-0	
	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 attention.	
Skin:	Wash affected area with mild soap and water. Remove any contaminated clothing. Seek medical attention.	
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention.	
	5. Firefighting Measures	
Flammability:	Flammable	
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for	
Spec. Fire Fighting Procedure:	surrounding material and type of fire. 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 materials and conditions listed in section 10.
Work/Hygienic Maintenance:	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 threshold limit.
8. Ex	posure Controls and Personal Protection
Permissible Exposure Limits:	N/A
Threshold Limit Value:	0.1 mg/m <sup>3</sup> as $Co_2(CO)_8$ , long-term value
Special Equipment:	None
Respiratory Protection:	Dust Respirator
Protective Gloves:	Rubber gloves
E - Desta d'ann	Check gloves prior to each use
Eye Protection:	Safety glasses or goggles Protective work clothing. Wear close-toed shoes and long
Body Protection:	sleeves/pants.
9.	Physical and Chemical Characteristics
Color	Dark red
Form:	Crystalline Pieces, Custom parts
Odor:	N/A
Water Solubility:	N/A
Boiling Point: Melting Point:	N/A N/A
Flash Point:	-23 °C
Autoignition Temperature:	N/A
Density:	N/A
Molecular weight:	341.95 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents
Incompatible Conditions:	None Carbon oxides, Cobalt/cobalt oxides

## 11. Toxicological Information

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Potential Health Effects:	
Eyes:	May cause irritation
Skin:	Causes skin irritation
Ingestion:	Harmful if swallowed
Inhalation:	Fatal if inhaled
Chronic:	N/A
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	N/A
Carcinogen:	Evidence of a carcinogenic effect.
	IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
	NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
	OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens
	12. Ecological Information
Aquatic Toxicity:	Harmful to aquatic life with long lasting effects
Persistent Bioaccumulation Toxicity:	N/A
Very Persistent, Very Bioaccumulative:	
Notes:	N/A horatorias, Inc.
	13. Disposal Considerations
Dispose of in accordance with local, sta	te, national, and international regulations.
	14. Transportation Data
Hazardous:	Hazardous for transportation.
	SPONTANEDUSY COMBUSTIBLE 4
Hazard Class:	4.2 Spontaneously combustible
Packing Group:	PGII
UN Number:	UN 3190
Proper Shipping Name:	Self-heating solid, inorganic, n.o.s. (di-Cobalt octacarbonyl)
	15. Regulatory Information
Sec 302 Extremely Hazardous:	Yes
Sec 304 Reportable Quantities:	N/A
Sec 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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