

LTS Research Laboratories, Inc. Safety Data Sheet Cobalt (II) hydroxide

1. Product and Company Identification

Trade Name: Chemical Formula: Recommended Use:

Manufacturer/Supplier: Street: City: State: Zip Code: Country: Tel #:

24-Hour Emergency Contact:

Cobalt (II) hydroxide Co(OH)₂ Scientific research and development

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	2. Hazards Identification
Signal Word:	Danger
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Hazard Statements:	 H302+H332: Harmful if swallowed or if inhaled H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. H351: Suspected of causing cancer. H410: Very toxic to aquatic life with long lasting effects.
Precautionary Statements:	P201: Obtain special instructions before use.
	 P202: Do not handle until all safety precautions have been read and understood. P261: Avoid breathing 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 should not be allowed out of the workplace. P273: Avoid release to the environment. P280: Wear protective gloves/ protective clothing/ eye protection/ face protection. P285: In case of inadequate ventilation wear respiratory protection. P285: In case of inadequate ventilation wear respiratory protection. P301+P312+P330: IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. P302+P352: IF ON SKIN: Wash with plenty of soap and water. P304+P340+P312: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313: IF exposed or concerned: Get medical advice/ attention. P337+P313: If eye irritation persists: Get medical advice/ attention. P337+P313: If eye irritation persists: Get medical advice/ attention. P337+P313: If eye irritation persists: Get medical advice/ attention. P337+P313: If eye irritation persists: Get medical advice/ attention. P331+P313: If eye irritation persists: Get medical advice/ attention. P332+P313: If eye irritation persists: Get medical advice/ attention. P331+P313: If eye irritation persists: Get medical advice/ attention. P331+P313: If eye irritation persists: Get medical advice/ attention. P331+P313: If eye irritation persists: Get medical advice/ attention.
HMIS Health Ratings (0-4):	
Health: Flammability: Physical:	2 0 1

3. Composition		
Chemical Family: Additional Names:	Inorganic Compound N/A	
Cobalt (II) hydroxide (Co(OH) ₂):		
Percentage:	100 wt%	
CAS #:	21041-93-0	
EC #:	244-166-4	
	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. Keep patient warm. Seek immediate medical attention.	
Ingestion:	Seek immediate medical attention.	
Skin:	Immediately wash affected area with mild soap and water. Remove any	
Skiii.	contaminated clothing. Seek immediate medical attention.	
Eyes:	Flush eyes with water, blinking often for several minutes. Remove	
5	contact lenses if present and easy to do. Continue rinsing. Seek	
	immediate medical attention.	
	5. Firefighting Measures	
	Non-flammable	
Extinguishing Media:	No special restrictions use suitable extinguishing agent for	
Extinguishing Wedia.	surrounding material and type of fire.	
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: Environmental Precautions:	Wear appropriate respiratory and protective equipment specified in special protection information. Keep unprotected persons away. 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. Isolate runoff to prevent environmental pollution.	
	7. Handling and Storage	
Handling Conditions:	Handle under dry protective gas. Avoid contact with skin and eyes.	
Storage Conditions:	Wash thoroughly after handling.	
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store away from air, oxidizing agents. Store under inert gas. This product is air sensitive	
	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	
work rygrenic 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:	Trovide sufficient ventilation to maintain concentration at or below	

8. Exposure Controls and Personal Protection		
Permissible Exposure Limits:	0.1 mg/m ³ as Co, short-term value	
Threshold Limit Value:	0.02 mg/m^3 as Co, long-term value	
Special Equipment:	Properly operating chemical fume hood designed for hazardous	
	chemicals and having an average face velocity of at least 100 feet per	
	minute.	
Respiratory Protection:	Dust Respirator	
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	Pink	
Form:	Powder	
Odor:	Odorless	
Water Solubility:	Insoluble	
Boiling Point:	N/A	
Melting Point:	250°C	
Flash Point:	N/A	
Autoignition Temperature:	N/A	
Density:	3.597 g/cc	
Molecular weight:	92.95 g/mol	
	10. Reactivity	
Stability:	Stable under recommended storage conditions	
Reacts With:	Oxidizing agents	
Incompatible Conditions:	Air, water/moisture	
Hazardous Decomposition Products:	Metal oxide fume, cobalt oxides	
	11. Toxicological Information	
Potential Health Effects:		
Eyes:	Causes serious eye irritation.	
Skin:	May cause an allergic skin reaction	
Ingestion:	Harmful if swallowed	
Inhalation:	Harmful if inhaled	
Chronic:	N/A	
Signs & Symptoms:	N/A	
Aggravated Medical Conditions:	N/A	
Median Lethal Dose:	1,060 mg/kg for rat by mouth	
Carcinogen:	IARC-2B: Possibly carcinogenic to humans: limited evidence in humans in the absence of sufficient evidence in experimental animals ACGIH A3: Animal carcinogen: Agent is carcinogenic in experiment animals at 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. Available evidence suggests that the agent is not likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure.	

	12. Ecological Information
Aquatic Toxicity:	N/A
Persistent Bioaccumulation Toxicity:	N/A
Very Persistent, Very Bioaccumulative: Notes:	N/A Do not allow product to reach ground water, water course or sewage
	system.
	Avoid transfer into the environment.
	13. Disposal Considerations
Dispose of in accordance with local, state	e, national, and international regulations.
	14. Transportation Data
Hazardous:	Hazardous as powder only.
Hazard Class:	9 Miscellaneous hazardous materials and articles
Packing Group:	Ш
UN Number:	UN3077
Proper Shipping Name:	Environmentally hazardous substance, solid, n.o.s. (Cobalt (II) hydroxide) Research
	15. Regulatory Information
Sec 302 Extremely Hazardous:	No
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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