

XI'AN FUNCTION MATERIAL GROUP CO., LTD Material Safety Data Sheet Cobalt (II) hydroxide

1. Product and Company Identification

Trade Name: Chemical Formula:

Manufacturer/Supplier: Street: City: State: Zip Code: Country: Tel #: $\begin{array}{l} Cobalt \ (II) \ hydroxide \\ Co(OH)_2 \end{array}$

XI'AN FUNCTION MATERIAL GROUP CO., LTD No. 69, Gazelle Valley, High-Tech Zone XI'AN Shaanxi 710077 China +86-29-88993870/+86-13519132051

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2. Hazards Identification

Signal Word:	Danger
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.
recautionary Statements.	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. 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.
	P333+P313: If skin irritation or rash occurs: Get medical advice/
	attention.
	P337+P313: If eye irritation persists: Get medical advice/attention.
	P363: Wash contaminated clothing before reuse.
	P391: Collect spillage.
	P405: Store locked up
	P501: Dispose of contents/container in accordance with local/regional/national/international regulations
UMIC Health Datings (0.4).	-
HMIS Health Ratings (0-4): Health:	2
Flammability:	2 0
Physical:	0
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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	
	contaminated clothing. Seek immediate medical attention.	
Eyes:	Flush eyes with water, blinking often for several minutes. Remove	
	contact lenses if present and easy to do. Continue rinsing. Seek	
	immediate medical attention.	
	5. Firefighting Measures	
Flammability:	Non-flammable	
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for	
	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. 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	
Work/Hygienic Maintenance:	Store apart from 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 threshold limit.	

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
al	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
N/A
N/A
N/A
Do not allow product to reach ground water, water course or sewage system.
Avoid transfer into the environment.
13. Disposal Considerations
, national, and international regulations.
14. Transportation Data
Hazardous as powder only.
9 Miscellaneous hazardous materials and articles
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UN3077
Environmentally hazardous substance, solid, n.o.s. (Cobalt (II)
hydroxide)
15. Regulatory Information
No
N/A
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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