



XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material Safety Data Sheet Cobalt dibromide

1. Product and Company Identification

Trade Name: Cobalt dibromide

Chemical Formula: CoBr₂

Recommended Use: Scientific research and development

Manufacturer/Supplier: XI'AN FUNCTION MATERIAL GROUP CO., LTD

Street: No. 69, Gazelle Valley, High-Tech Zone

City: XI'AN
State: Shannxi
Zip Code: 710077
Country: China

Tel#: +86-29-88993870/+86-13519132051

2. Hazards Identification

Signal Word: Danger







Hazard Statements:

H302: Harmful if swallowed.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H341: Suspected of causing genetic defects.

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.

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/doctor if you feel unwell. Rinse mouth.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P304+P341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.

	P363: Wash contaminated clothing before reuse.
	P391: Collect spillage.
	P405: Store locked up.
	P501: Dispose of contents/ container to an approved waste disposal
	plant.
HMIS Health Ratings (0-4):	
Health:	2
Flammability:	0
Physical:	1
	3. Composition
Chemical Family:	Nonmetal
Additional Names:	Cobalt (II) Bromide
Cobalt Dibromide (CoBr ₂):	
Percentage:	100 wt%
CAS #:	7789-43-7
EC #:	232-166-7
	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	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 an
D.	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.
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	5. Firefighting Measures
Flammability:	Non-flammable, except as powder
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for
Construction Production	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:	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.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions:	
Handling Conditions: Storage Conditions:	Handle under dry protective gas. Avoid contact with the eyes and skin. Wash thoroughly after handling. Store in a cool dry place in a tightly sealed container. Store under dry

inert gas. Store away from water/moisture, oxidizing agents. This product is hygroscopic. Protect from humidity and water. 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. Exposure Controls and Personal Protection

Permissible Exposure Limits: 0.1 mg/m³ as Co, long-term value Threshold Limit Value: 0.02 mg/m³ 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: Nitrile rubber gloves with minimum thickness of 0.11 mm

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 N/A

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor: N/A Water Solubility: Soluble **Boiling Point:** N/A Melting Point: 678 °C Flash Point: N/A Autoignition Temperature: N/A Density: 4.909 g/cc Molecular weight: 218.74 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions Reacts With: Oxidizing agents, alkali metals, water/moisture

Incompatible Conditions: Water/moisture

Hazardous Decomposition Products: Metal oxide fume, hydrogen bromide, cobalt oxides

11. Toxicological Information

Potential Health Effects:

Eyes: May cause irritation

Skin: May cause irritation or an allergic skin reaction

Ingestion: Harmful if swallowed

Inhalation: May cause allergy or asthma symptoms or breathing difficulties if

inhaled

Chronic: N/A

Signs & Symptoms: Stomach - Irregularities - Based on Human Evidence

Aggravated Medical Conditions: N/A

Median Lethal Dose: 406 mg/kg for rat by mouth

Carcinogen: Suspected of causing cancer.

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 experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histologic type(s), or my 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 level of exposure.

12. Ecological Information

Aquatic Toxicity:

N/A

Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulative: Biodegradability Result: - Not biodegradable

N/A

Very Persistent, Very Bioaccumulative: Notes:

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

Do not allow undiluted product or large quantities to reach ground

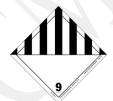
water, water course or sewage system. Avoid transfer into the environment.

13. Disposal Considerations

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

14. Transportation Data

Hazardous: Hazardous for transportation.



Hazard Class: 9 Miscellaneous hazardous materials

Packing Group: III UN Number: UN3077

Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Cobalt dibromide)

15. Regulatory Information

Sec 302 Extremely Hazardous:

Sec 304 Reportable Quantities:

No

No

No

No

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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