

XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material Safety Data Sheet Cadmium Metal

1. Product and Company Identification

Trade Name: Metal Chemical Formula: Cd

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

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

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

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

2. Hazards Identification

Signal Word: Danger



Hazard Statements: H228: Flammable Solid

H330: Fatal if inhaled

H341: Suspected of causing genetic defects

H350: May cause cancer

H361: Suspected of damaging fertility or the unborn child H372: Causes damage to organs through prolonged or repeated

exposure

Precautionary Statements: P210: Keep away from heat/sparks/open flames/hot surfaces

P260: Do not breathe dust/fume/gas/mist/vapors/spray

P284: Wear respiratory protection

P281: Use personal protective equipment as required

P320: Specific treatment is urgent

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

	Powder	Granules	Bulk
Health:	3	3	1
Flammability:	3	0	0
Physical:	1	1	0

3. Composition				
Chemical Family:	Metal			
Additional Names:	None			
Cadmium (Cd):				
Percentage:	100 wt%			
CAS #:	7440-43-9			
EC #:	231-152-8			
	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. Remove breathing apparatus only after contaminated clothing has been completely removed. Seek immediate medical attention.			
Ingestion:	Seek medical attention			
Skin:	Wash affected area with mild soap and water. Remove any			
Even	contaminated clothing. Seek immediate medical attention. Flush eyes with water, blinking often for several minutes. Remove			
Eyes:	contact lenses if present and easy to do. Continue rinsing			
	5. Firefighting Measures			
Flammability:	Flammable (in powder form)			
Extinguishing Media:	Do not use water for metal fires – use CO ₂ , 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.			
Environmental Precautions:	Take care not to raise dust. Isolate runoff to prevent environmental pollution.			
	isolate fulfor 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			
World/Harrisonia Maintenance	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

0.005 mg/m³ as Cd, long-term value Permissible Exposure Limits:

Threshold Limit Value: 0.01 mg/m³ as Cd, long-term value

0.002 mg/m³ as Cd, respirable fraction, 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: Nitrile rubber, NBR 0.11mm thick.

Penetration time of glove material: 480 minutes

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 colorless to pale green as powder, Silvery-white otherwise. Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor: **Odorless** Water Solubility: Insoluble **Boiling Point:** 765 °C **Melting Point:** 321 °C Flash Point: N/A Autoignition Temperature: N/A

Density: 8.65 g/cc Molecular weight: 112.40 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts with: Oxidizing agents

Incompatible Conditions: None

Hazardous Decomposition Products: Cadmium oxide

11. Toxicological Information

Potential Health Effects:

Eyes: May cause irritation Skin: May cause irritation May cause irritation Ingestion: Inhalation: May cause irritation

Chronic: Suspected of causing genetic defects

Signs & Symptoms: N/A **Aggravated Medical Conditions:** N/A Median Lethal Dose: N/A

Carcinogen: IARC-1: carcinogenic to humans: sufficient evidence of

carcinogenicity.

EPA-B1: Probable human carcinogen, limited evidence of

carcinogenicity from epidemiologic studies

ACGIH A2: Suspected human carcinogen: Agent is carcinogenic in experimental animals at dose levels, by routes of administration, at sites, of histologic types, or by mechanisms considered relevant to worker exposure. Available epidemiologic studies are conflicting or insufficient to confirm an increased risk of cancer in exposed humans. NTP-K: Known to be carcinogenic: sufficient evidence from human

studies.

12. Ecological Information

Aquatic Toxicity: High
Persistent Bioaccumulation Toxicity: No
Very Persistent, Very Bioaccumulative: No

Very Persistent, Very Bioaccumulative: Notes:

Very toxic for aquatic organism.

May cause long lasting harmful effect on aquatic life.

Do not allow material to be released to the environment without proper

governmental permits.

Do not allow product to reach any water sources.

Danger to drinking water if even extremely small quantities leak into

the ground.

13. Disposal Considerations

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

14. Transportation Data

Hazardous: Hazardous as powder



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

explosives

Secondary Class: 6.1 Toxic substances

Packing Group:

UN Number: UN3179

Proper Shipping Name: Flammable solid, toxic, inorganic n.o.s (Cadmium powder)

Hazardous: Hazardous as granules



Hazard Class: 6.1 Toxic substances

Packing Group:

UN Number: UN2570

Proper Shipping Name: Cadmium compounds (Cadmium granules)

15	Dogu	lotoer	Inform	antion
10.	Kegu.	latory	шош	iauon

Sec 302 Extremely Hazardous:NoSec 304 Reportable Quantities:N/ASec 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.

Document Last Revised: 07/14/2019