

XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material Safety Data Sheet Cadmium Phosphide

1. Product and Company Identification

Trade Name: Cadmium Phosphide

Chemical Formula: Cd₃P₂

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: Warning





Hazard Statements: H302+H312+H332: Harmful if swallowed, in contact with skin or if

nhaled.

H410: Very toxic to aquatic life with long lasting effects

Precautionary Statements: P261 Avoid breathing dust/fume/vapor

P280: Wear protective gloves/protective clothing/eye protection/face

protection

P301+P312: IF SWALLOWED: Call a POISON CENTER or

doctor/physician if you feel unwell

P312: Call a POISON CENTER or doctor/physician if you feel unwell

P302+PP352: IF ON SKIN: Wash with soap and water

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest

in a position comfortable for breathing

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 3
Flammability: 0
Physical: 2

3. Composition	
Chemical Family: Additional Names:	Ceramic Tricadmium Diphosphide
Additional Names.	Theadillulli Diphosphide
Cadmium Phosphide (Cd ₃ P ₂):	
Percentage:	100 wt.%
CAS #: EC #:	12014-28-7 234-595-5
	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	N/A
Important Symptoms:	N/A
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult. Keep victim warm.
Ingestion:	Seek medical attention.
Skin:	Wash affected area with mild soap and water. Remove any
Erros	contaminated clothing.
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:	Non-flammable
Extinguishing Media: Spec. Fire Fighting Procedure:	Do not use water for metal fires – use CO ₂ , sand, extinguishing powder Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for decomposition products.
740	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. Do not allow material to be released without proper governmental permits.
	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
Work/Hygienic Maintenance:	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: 0.2 mg/m³ as Cd (USA) Threshold Limit Value: 0.002 mg/m³ as Cd

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: Use suitable respirator when high concentrations are present. Refer

29CFR1910.1027 for regulations on respiratory protection required

during exposure to cadmium and cadmium compounds.

Protective Gloves: Impervious gloves. Check gloves prior to use for their proper condition.

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 Green

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

Odor: N/A Water Solubility: Insoluble **Boiling Point:** N/A 700 °C **Melting Point:** Flash Point: N/A Autoignition Temperature: N/A Density at 20°C: 5.6 g/cc Molecular weight: 399.19 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: N/A
Incompatible Conditions: N/A

Hazardous Decomposition Products: Phosphorus oxides (e.g. P₂O₅)

11. Toxicological Information

Potential Health Effects:

Eves: May cause irritation

Skin: Harmful in contact with skin. Danger by skin resorption. (Acute)

Ingestion: Harmful if swallowed. (Acute)
Inhalation: Harmful if inhaled. (Acute)

Chronic: N/A

Signs & Symptoms: N/A
Aggravated Medical Conditions: N/A

Median Lethal Dose: N/A

Carcinogen: IARC-1: Carcinogenic to human: sufficient evidence of

carcinogenicity.

NTP-R: Reasonably anticipated to be a carcinogen: limited evidence

from studies in humans or sufficient evidence from studies in

experimental animals.

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 route of administration, at site, of histologic type, or by mechanism considered relevant to worker exposure. Available epidemiologic studies are conflicting or insufficient to confirm an increased risk of cancer in exposed humans.

12. . Ecological Information

Aquatic Toxicity: Very toxic for fish.

Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulative:

Notes:

N/A
Do not allow material to be released to the environment without proper

governmental permits.

Do not allow material to reach ground water, water course or sewage

system, even in small quantities.

Danger to drinking water if even extremely small quantities leakinto

the ground.

N/A

Also, poisonous for fish and plankton in water bodies. May cause long lasting harmful effects to aquatic life.

Avoid transfer into the environment. Very toxic for aquatic organisms.

13. Disposal Considerations

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

14. Transportation Data

Hazardous: Not hazardous for transportation.

Toxic 6

Hazard Class: 6.1 (T5) Toxic substance

Packing Group:

UN Number: UN2570

Proper Shipping Name: Cadmium compounds (Cadmium Phosphide)

15. . Regulatory Information

Sec 302 Extremely Hazardous: N/A
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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