

LTS Research Laboratories, Inc. Safety Data Sheet Cadmium Arsenide Metal

1. Product and Company Identification

Trade Name: Cadmium arsenide metal

Chemical Formula: Cd₃As₂

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 37 Ramland Road
City: Orangeburg
State: New York
Zip Code: 10962
Country: USA

Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

2. Hazards Identification

Signal Word: Danger



Hazard Statements: H300+H330: Fatal if swallowed or if inhaled

H350: May cause cancer

Precautionary Statements: P260: Do not breathe dust/fume/gas/mist/vapours/spray

P284: Wear respiratory protection

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER

or doctor/physician

P320: Specific treatment is urgent (see on this label)

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 3 Flammability: 0 Physical: 1

3. Composition

Chemical Family: Metal

Additional Names: Tricadmium diarsenide

Cadmium arsenide (Cd₃As₂):

Percentage: 100 wt% CAS #: 12006-15-4 EC #: 234-484-1

4. First Aid Procedures	
General Treatment:	Remove any contaminated clothing. Remove breathing apparatus only after contaminated clothing has been completely removed. Supply oxygen if breathing is difficult. Seek medical attention if symptoms persist.
Special Treatment: Important Symptoms:	None None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
Ingestion: Skin:	Seek immediate medical attention. Do not induce vomiting. Seek immediate medical attention. Wash affected area with mild soap and water. Seek immediate medica attention.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
	5. Firefighting Measures
Flammability: Extinguishing Media:	Non-flammable 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:	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. Take care not to raise dust.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions: Storage Conditions:	Wash thoroughly after handling. Store in a cool dry place in a tightly sealed container. 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
Ventilation:	compressed air. Provide sufficient ventilation to maintain concentration at or below threshold limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: N/A
Threshold Limit Value: N/A

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: 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 Dark Grey

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

Odor: Odorless
Water Solubility: Decomposes
Boiling Point: N/A

Melting Point:

Melting Point:

N/A

Flash Point:

N/A

Autoignition Temperature:

N/A

N/A

N/A

N/A

Autoignition Temperature:

N/A

Autoignition Temperature:

487.08 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Oxidizing agents

Incompatible Conditions: None

Hazardous Decomposition Products: Metal oxide fume, Arsenic oxides, Cadmium oxide

11. Toxicological Information

Potential Health Effects:

Eyes: May cause irritation Skin: May cause irritation

Ingestion: Fatal
Inhalation: Fatal
Chronic: N/A

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

Median Lethal Dose: N/A

Carcinogen: Carcinogen as defined by OSHA.

EPA-A: human carcinogen: sufficient evidence from epidemiologic studies to support a causal association between exposure and cancer

IARC-1: Carcinogenic to humans: sufficient evidence of

carcinogenicity.

ACGIH A1: Confirmed human carcinogen: Agent is carcinogenic to humans based on epidemiologic studies of, or convincing clinical

evidence 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 for transportation



Hazard Class: 6.1 Toxic substances.

Packing Group:

UN Number: UN1557

Proper Shipping Name: Arsenic compounds, solid, n.o.s. (Cadmium arsenide)

15. Regulatory Information

Redearch

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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