

LTS Research Laboratories, Inc. Safety Data Sheet Cadmium Tungsten Oxide

1. Product and Company Identification

Trade Name: Cadmium tungsten oxide

Chemical Formula: CdWO₄

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: Warning



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

inhaled

H319: Causes serious eye irritation.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements: P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ 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.

P273 Avoid release to the environment.

P280 Wear protective gloves/clothing/eye protection/face protection. P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or

doctor if you feel unwell. Rinse mouth.

P302 + P352 + P312 IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor if you feel unwell.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor 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.

P391 Collect spillage.

P403 + P233 Store in a well-ventilated place. Keep container tightly

closed.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal

plant.

HMIS Health Ratings (0-4):

Health: 3
Flammability: 0
Physical: 1

3. Composition	
Chemical Family: Additional Names:	Ceramic Cadmium tungstate, Cadmium(II) tungstate, Cadmium(II) tungsten oxide
Cadmium tungsten oxide (CdWO ₄):	
Percentage:	100 wt%
CAS #: EC #:	7790-85-4 NIL
	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.
Ingestion:	Seek medical attention.
Skin:	Wash affected area with mild soap and water. Remove any contaminated clothing.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
Lycs.	contact lenses if present and easy to do. Continue rinsing
	5. Firefighting Measures
Flammability:	Non-flammable, except as powder
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for
	surrounding material and type of fire. 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. Take care not to raise dust.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.
Environmental Frecautions.	Isolate fulloff 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 materials and conditions listed in section 10.
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before
Work/Trygleine Wantenance.	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: 0.005 mg/m³ as Cd, long-term value

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: For nuisance exposures use type P95 (US) or type P1 (EU EN 143)

particle respirator. For higher level

protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US)

or CEN (EU).

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 White

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

Odor: **Odorless** Insoluble Water Solubility: **Boiling Point:** N/A Melting Point: N/A Flash Point: N/A

Autoignition Temperature: N/A

Density: N/A

Molecular weight: N/A

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Acids, Bases, Oxidizing agents

Incompatible Conditions: None

Hazardous Decomposition Products: Cadmium/cadmium oxides, Tungsten oxide

11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious irritation

Skin: Harmful Ingestion: Harmful Inhalation: Harmful Chronic: N/A

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

Median Lethal Dose: N/A

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

carcinogenicity.

NTP-K: Known to be carcinogenic: sufficient evidence from human

studies.

OSHA: OSHA specifically regulated carcinogen

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:
UN 2570
UN 2570

Proper Shipping Name: Cadmium compounds (Cadmium tungsten oxide)

15. Regulatory Information

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.

Document Last Revised: 06/19/2015