

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

1. Product and Company Identification

Trade Name: Cadmium tin oxide

Chemical Formula: Cd₂SnO₄

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 / 845-lts-chem

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

+1-703-527-3887 (International)

2. Hazards Identification

Signal Word: Danger



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

inhaled

Precautionary Statements: P261 Avoid breathing dust/fume/vapor

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

protection

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

in a position comfortable for breathing

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

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 3 Flammability: 0 Physical: 0

3. Composition

Chemical Family: Ceramic

Additional Names: Cadmium stannate

Cadmium tin oxide (Cd₂SnO₄):

Percentage: 100 wt% CAS #: 12185-56-7 EC #: NIL

4. First Aid Procedures General Treatment: Seek medical attention if symptoms persist. Special Treatment: None **Important Symptoms:** None Remove victim to fresh air. Supply oxygen if breathing is difficult. Inhalation: Seek medical attention. Ingestion: Wash affected area with mild soap and water. Remove any Skin: contaminated clothing. 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: Non-flammable, except as powder Extinguishing Media: No special restrictions – use suitable extinguishing agent for surrounding material and type of fire. Use full-face, self-contained breathing apparatus with full protective Spec. Fire Fighting Procedure: 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: 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 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 $0.005 \ mg/m^3$ as Cd, long-term value Permissible Exposure Limits: Threshold Limit Value: 0.01 mg/m³ as Cd, long-term value **Special Equipment:** None **Respiratory Protection:** Refer to 29CFR1910.1027 for regulations on respiratory protection required during exposure to cadmium and cadmium compounds. Protective Gloves: Rubber gloves Eve 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

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

Odor:
Water Solubility:
N/A
Boiling Point:
N/A
Melting Point:
N/A
Flash Point:
N/A
Autoignition Temperature:
N/A
Density:
N/A

Molecular weight: 391.488 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Oxidizing agents

Incompatible Conditions: None

Hazardous Decomposition Products: Metal oxide fume

11. Toxicological Information

Potential Health Effects:

Eyes: Causes irritation

Skin: Danger through skin absorption, harmful

Ingestion: Harmful Inhalation: Harmful

Chronic: Cadmium and cadmium compounds are highly toxic and experimental

carcinogens. Exposure affects the respiratory tract, kidneys, and liver. Ingestion may cause nausea, salivation, vomiting and diarrhea.

Ingestion or inhalation of cadmium/cadmium compounds may be fatal.

Signs & Symptoms: N/A

Aggravated Medical Conditions: N/A

Median Lethal Dose: N/A

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

carcinogenicity

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

carcinogenicity from epidemiologic studies.

EPA-B1: Probable human carcinogen, limited evidence of

carcinogenicity from epidemiologic studies

12. Ecological Information

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

Very Persistent, Very Bioaccumulative: No 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
Packing Group: III
UN Number: UN2570

Proper Shipping Name: Cadmium compounds (cadmium tin oxide)

15. Regulatory Information

Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: N/A Sec 313 Toxic Chemicals: Yes

Other regulations, limitations Refer to 29CFR1910.1027 for regulations concerning and prohibitive regulations: cadmium and cadmium compounds.

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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