

LTS Research Laboratories, Inc. Safety Data Sheet Zinc Tin Sulfide

1. Product and Company Identification

Trade Name: Zinc tin sulfide

Chemical Formula: ZnSnS₄

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: H315 Causes skin irritation.

H319 Causes serious eye irritation. H335: May cause respiratory irritation

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

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

protection

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rınsıng.

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

in a position comfortable for breathing

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 1 Flammability: 0 Physical: 1

| 3. Composition | | |
|--|--|--|
| Chemical Family: | Ceramic | |
| Additional Names: | None | |
| Zinc tin sulfide (ZnSnS ₄): | | |
| Percentage: | 100 wt% | |
| CAS #: | NIL | |
| EC #: | 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 | |
| T. | contaminated clothing. | |
| 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: | Non-flammable | |
| Extinguishing Media: | 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 | |
| TCM - 1 1 T D 1 - 1/0 11 1 | THE RESERVE TO THE RE | |
| 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 ofter handling | |
| Handling Conditions: Storage Conditions: | Wash thoroughly after handling. Store in a cool dry place in a tightly sealed container. Store apart from | |
| biorage Conditions. | materials and conditions listed in section 10. | |
| Work/Hygienic Maintenance: | Do not use tobacco or food in work area. Wash thoroughly before | |
| o.m. 11, greine maintenance. | 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: N/A
Threshold Limit Value: N/A

Special Equipment: None

Respiratory Protection:
Protective Gloves:

Dust Respirator
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 N/A

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

Odor: N/A
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: N/A

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Acids, Oxidizing agents

Incompatible Conditions: None

Hazardous Decomposition Products: Hydrogen fluoride, Sulfur oxide, Metal oxide fume

11. Toxicological Information

Potential Health Effects:

Eyes:May cause irritationSkin:May cause irritationIngestion:May cause irritationInhalation:May cause irritation

Chronic: N/A

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

Median Lethal Dose: >2 g/kg for rat by skin

LD30: >2 g/kg for rat by mouth

Carcinogen: N/A

12. Ecological Information

Aquatic Toxicity: Low Persistent Bioaccumulation Toxicity: No Very Persistent, Very Bioaccumulative: No Notes: N/A

13. Disposal Considerations

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

| Hazardous: | Not hazardous for transportation. | |
|--------------------------------|-----------------------------------|--|
| Hazard Class: | N/A | |
| Packing Group: | N/A | |
| UN Number: | N/A | |
| Proper Shipping Name: | N/A | |
| | 15. Regulatory Information | |
| Sec 302 Extremely Hazardous: | No | |
| Sec 304 Reportable Quantities: | N/A | |
| Sec 313 Toxic Chemicals: | Yes: Zinc sulfide | |

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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