

LTS Research Laboratories, Inc. Safety Data Sheet Tin Silver Copper

1. Product and Company Identification

Trade Name: Tin silver copper Chemical Formula: Sn/Ag/Cu

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: H228: Flammable solid

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

Precautionary Statements: P210: Keep away from heat/sparks/open flames/hot surfaces – No

smoking

P240: Ground/bond container and receiving equipment

P241: Use explosion-proof electrical/ventilating/lighting/equipment

P261 Avoid breathing dust/fume/vapor

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 rinsing

P370+P378: In case of fire: Use CO₂, powder or water spray for

extinction

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health:

Flammability: 2 (powder)

Physical:

3. Composition	
Chemical Family:	Metal alloy
Additional Names:	None
Tin (Sn):	
Percentage:	0-100 wt%
CAS #:	7440-31-5
EC #:	231-141-8
Silver (Ag):	
Percentage:	0-100 wt%
CAS #:	7440-22-4
EC #:	231-131-3
Copper (Cu):	
Percentage:	0-100 wt%
CAS #:	7440-50-8
EC #:	231-159-6
	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: Skin:	Give one to two glasses of water and induce vomiting. Never induce vomiting or give anything by mouth to an unconscious person. Wash affected area with mild soap and water. Remove any
SKIII.	contaminated clothing.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
Lyes.	contact lenses if present and easy to do. Continue rinsing
	5. Firefighting Measures
Flammability:	Non-flammable, except as powder
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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.
	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.

Do not use tobacco or food in work area. Wash thoroughly before Work/Hygienic 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: 0.01 mg/m³ as Ag, long-term value

Threshold Limit Value: 0.1 mg/m³ as Ag, long-term value

Special Equipment: None

Respiratory Protection: Dust Respirator 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 Silver

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

Odor: **Odorless**

Water Solubility: Insoluble Redearch **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, Halogens, Interhalogens, Oxidizing agents

Incompatible Conditions: None

Hazardous Decomposition Products: Metal oxide fume

11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious eye damage

Skin: May cause irritation Ingestion: May cause irritation Inhalation: May cause irritation

Chronic: N/A

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

Median Lethal Dose: >5000 mg/kg for rat by mouth

N/A Carcinogen:

12. Ecological Information

Aquatic Toxicity: Low 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.

Also poisonous for fish and plankton in water bodies.

Avoid transfer into the environment.

Toxic to aquatic life.

13. Disposal Considerations

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

14. Transportation Data

Hazardous: Hazardous for transportation as powder

FLAMMABLE SOLID

Hazard Class: 4.1 Flammable solids, self-reactive substances and solid desensitized

explosives

Packing Group: UN Number:

Proper Shipping Name:

UN3089

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Metal powders, flammable, n.o.s. (Tin silver copper)

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.

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