

LTS Research Laboratories, Inc. Safety Data Sheet Palladium Copper Alloy

1. Product and Company Identification

Trade Name: Palladium Copper Alloy

Chemical Formula: PdCu

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: H228: Flammable solid

H319 Causes serious eye irritation H335: May cause respiratory irritation

Precautionary Statements: P261 Avoid breathing dust/fume/vapor

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

smoking

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

protection

P240: Ground/bond container and receiving equipment

P241: Use explosion-proof electrical/ventilating/light/equipment 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 or powder 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:
Physical:

Powder
Bulk
0
0
1
0

3. Composition	
Material Family:	Metal Alloy
Additional Names:	N/A
Palladium (Pd):	
Percentage:	0-100 wt%
CAS #:	7440-05-3
EC #:	231-115-6
Copper (Cu):	0.100 (0)
Percentage:	0-100 wt%
CAS #: EC #:	7440-50-8 231-159-6
	4. First Aid Procedures
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General Treatment:	Seek medical attention if symptoms persist. None
Special Treatment: Important Symptoms:	None
important Symptoms.	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
Ingestion:	Give one to two glasses of water. Never induce vomiting or give
	anything by mouth to an unconscious person.
Skin:	Wash affected area with mild soap and water. Remove any
	contaminated clothing.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
	contact lenses if present and easy to do. Continue rinsing
	2.3
	5. Firefighting Measures C
Flammability:	Non-flammable, except as powder
Extinguishing Media:	Do not use water for metal fires – use CO2, sand, extinguishing
Spec. Fire Fighting Procedure:	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 Delegad/Spilled:	Wear appropriate respiratory and protective equipment specified in
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
Vantilations	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: 0.1 mg/m3 as Cu, metal fume, long-term value

1 mg/m3 as Cu, metal dusts and mists, long-term value

Threshold Limit Value: 0.2 mg/m3 as Cu, metal fume, long-term value

1 mg/m3 as Cu, metal dusts and mists, long-term value

Special Equipment: None

Respiratory Protection: Use a recommended dust respirator or mask. 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 N/A

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

Odor:
Water Solubility:
N/A
Boiling 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: Oxidizing agents, acids

Incompatible Conditions: Protect against electrostatic charges

Hazardous Decomposition Products: Metal oxide fume, copper oxides, palladium oxide

11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious eye irritation

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 mouse by mouth (for Cu)

Carcinogen: N/A

12. Ecological Information

Aquatic Toxicity: N/A
Persistent Bioaccumulation Toxicity: N/A
Very Persistent, Very Bioaccumulative: N/A

Notes: Do not allow material to be released to the environment without proper

governmental permits.

Do not allow undiluted product or larger quantities to reach ground

water, water course, or sewage system.

Avoid transfer into the environment.

13. Disposal Considerations

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

14. Transportation Data

Hazardous: Hazardous as powder only.



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

explosives

Packing Group: III UN Number: UN3089

Proper Shipping Name: Metal powders, flammable, n.o.s. (Palladium Copper Alloy)

15. Regulatory Information

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

16. Other Information as Inc.

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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