

LTS Research Laboratories, Inc. Safety Data Sheet Palladium

1. Product and Company Identification

Trade Name: Palladium Chemical Formula: Pd

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 2001 Oaks Pkwy

City: Belmont
State: North Carolina

Zip Code: 28012 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

H315: Causes skin irritation

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

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

smoking

P233: Keep container tightly closed

P240: Ground/bond container and receiving equipment

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

P261: Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray P264: Wash face, hands, and any exposed skin thoroughly after

handling

P271: Use only outdoors or in a well-ventilated area

P280: Wear protective gloves/ eye protection/ face protection P302 + P352: IF ON SKIN: Wash with plenty of soap and water P304 + P340 + P312: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ 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.

Continue rinsing

P332 + P313: If skin irritation occurs: Get medical advice/ attention P337 + P313: If eye irritation persists: Get medical advice/ attention

P362: Take off contaminated clothing and wash before reus

P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-

resistant foam to extinguish

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

P405: Store locked up

P501: Dispose of contents/container in accordance with local/regional/

national/international regulations

Bulk

HMIS Health Ratings (0-4):

Health: 1 0 Flammability: 2 0 Physical: 1 0

3. Composition

Chemical Family: Additional Names: Metal None

Powder

Palladium (Pd):

Percentage: 100 wt% CAS #: 7440-05-3 EC #: 231-115-6

4. First Aid Procedures

General Treatment:

Seek medical attention if symptoms persist.

Research

Special Treatment:

Important Symptoms:

None None

Skin:

Remove victim to fresh air. Supply oxygen if breathing is difficult. Inhalation:

Give one to two glasses of water and induce vomiting. Never induce Ingestion: vomiting or give anything by mouth to an unconscious person.

Wash affected area with mild soap and water. Remove any

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:

Spec. Fire Fighting Procedure:

Do not use water for metal fires – use CO₂, 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.

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

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: Odorless

Water Solubility:
Boiling Point:

Insoluble
2970 °C

Porestories inc.

Molecular weight: 12.02 g/cc
106.4 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Strong acids, Halogens, Bases, Palladium undergoes a violent reaction

with arsenic, Methanol, Ethanol, Alcohols, Strong oxidizing agents,

Peroxides

Incompatible Conditions: Heat, flames and sparks

Hazardous Decomposition Products: Palladium oxide

11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious eye irritation Skin: Causes skin irritation

Ingestion: May cause irritation Inhalation: May cause irritation

Chronic: N/A

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

Median Lethal Dose: N/A

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: II

UN Number: UN3089

Proper Shipping Name: Metal powders, flammable, n.o.s. (palladium)

15. Regulatory Information

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

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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