

# LTS Research Laboratories, Inc. Safety Data Sheet Iron Palladium Alloy

## 1. Product and Company Identification

Trade Name: Iron Palladium Alloy

Chemical Formula: FePd

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

H251: Self heating, may catch fire 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.

P235+P410: Keep cool. Protect from sunlight.

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/protective clothing/eye protection/

face protection

P302+P350: IF ON SKIN: Wash gently with plenty of soap and water P304+P341: IF INHALED: If breathing is difficult, remove victim to

fresh air and keep a rest in a position comfortable for breathing. P362: Take off contaminated clothing and wash before reuse.

P370: In case of fire: Use CO2, dry chemical or foam for extinction.

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

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/national/international regulations.

HMIS Health Ratings (0-4): Health: 2 3 Flammability: 0 Physical: 3. Composition Chemical Family: Additional Names: Palladium Iron alloy Iron (Fe): 0-100 wt% Percentage: 7439-89-6 CAS #: EC #: 231-096-4 Palladium (Pd): Percentage: 0-100 wt% CAS #: 7440-05-3 EC #: 231-115-6 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. Give artificial respiration proper respiratory medical device. Seek medical attention. Clean mouth with water. Seek medical attention immediately. Ingestion: Skin: Wash affected area with soap and plenty of water. Remove all contaminated clothing and shoes. Seek medical attention. 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: Flammable. Risk of ignition, self-heating. Dust can form explosive mixture in air. Do not use water, foam or carbon dioxide (CO<sub>2</sub>). Use extinguishing Extinguishing Media: powder or dry chemical. 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 Wear appropriate respiratory and protective equipment specified in If Material Is Released/Spilled: 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. Keep unprotected personnel away. Take care not to raise dust. Remove

**Environmental Precautions:** 

all sources of ignition. Use spark proof tools and explosion proof equipment. Do not let this chemical enter the environment.

surface water or sanitary sewer system.

Isolate runoff to prevent environmental pollution. Do not flush into

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7. Handling and Storage

Handling Conditions: Wash thoroughly after handling. Wear personal protective equipment.

Avoid inhalation and ingestion. Avoid dust formation. Do not let it get in to eyes, on skin or on clothing. Do not ingest. Do not breathe dust. Ensure adequate ventilation. Use only non-sparking tools and explosion

proof equipment.

Storage Conditions: Store in a cool dry place in a tightly sealed container. Keep away from

sources of heat and ignition. 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: 5 mg/m3 as Fe, long-term value

Special Equipment: None

Respiratory Protection:Dust RespiratorProtective Gloves:Nitrile rubber glovesEye Protection:Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics

Color Gray-Dark gray

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

Odorless Odor: Water Solubility: Insoluble **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: Moisture Sensitive

Reacts With: Oxidizing agents, Acids, Fluorine, Halogenated agents, Halogens,

Oxygen, Nitriles, Aldehydes, Peroxides

Incompatible Conditions: Moisture

Hazardous Decomposition Products: Metal oxide fume

## 11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious eye irritation

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

Chronic: N/A

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

Median Lethal Dose: 30 g/kg for rat by mouth

Carcinogen: N/A

12. Ecological Information

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

Notes: Contains components harmful to aquatic organisms. Do not empty into

drains. Insoluble in water.

13. Disposal Considerations

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

14. Transportation Data

Hazardous: Hazardous for transportation



Hazard Class: 4.2 Spontaneously Combustible materials

Packing Group:

UN Number: UN3190

Proper Shipping Name: Self-heating solid, inorganic, n.o.s

15. Regulatory Information

Sec 302 Extremely Hazardous: N/A
Sec 304 Reportable Quantities: N/A
Sec 313 Toxic Chemicals: N/A

## 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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