

SAFETY DATA SHEET

1. Product and Supplier Identification

Product Name: Palladium - shot, sheet, foil, rod, wire, pellets, target

Formula: Pd

Supplier: DHF Technical Products

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Recommended Uses: R&D, Manufacturing

2. Hazards Identification

GHS Classification (29 CFR 1910.1200): Not classified as hazardous

GHS Label Elements:

Signal Word: N/A N/A
Hazard Statements: N/A N/A
Precautionary Statements: N/A N/A

3. Composition/Information on Ingredients

Ingredient: Palladium

CAS#: 7440-05-3

%: 100

EC#: 231-115-6



4. First Aid Measures

General Measures: No special requirements.

INHALATION: Remove to fresh air, keep warm and quiet, give oxygen

if breathing is difficult. Seek medical attention.

INGESTION: Rinse mouth with water. Do not induce vomiting.

Seek medical attention. Never induce vomiting or give

anything by mouth to an unconscious person.

SKIN: Remove contaminated clothing, brush material off skin,

wash affected area with soap and water.

Seek medical attention if symptoms persist.

EYES: Flush eyes with lukewarm water, including under upper

and lower eyelids, for at least 15 minutes. Seek medical attention if symptoms persist.

Most Important Symptoms/Effects, May cause irritation.

Acute and Delayed: See section 11 for more information.

Indication of Immediate Medical No other relevant information available.

Attention and Special Treatment:

5. Firefighting Measures

Extinguishing Media: Use Class D or other metal extinguishing agent.

Unsuitable Extinguishing Media: No information available.

Specific Hazards Arising from the Material: May emit palladium oxide fumes under fire conditions.

Special Protective Equipment and Full face, self-contained breathing apparatus and

Precautions for Firefighters: full protective clothing when necessary.



6. Accidental Release Measures

Personal Precautions, Protective Wear appropriate respiratory and protective equipment

Equipment, and Emergency Procedures: specified in section 8.

Methods and Materials for Sweep or scoop up. Place in properly labeled closed

Containment and Cleaning Up: containers. Scrap can be collected for recycling.

Environmental Precautions: Do not allow to enter drains or to be released to the

environment.

7. Handling and Storage

Precautions for Safe Handling: Avoid creating dust. Avoid breathing dust or fumes.

Provide adequate ventilation if dusts are created. Avoid contact with skin and eyes. Wash thoroughly before eating or smoking. See section 8 for information on

personal protection equipment.

Conditions for Safe Storage: Store in a sealed container. Store in a cool, dry area.

See section 10 for more information on incompatible

materials.



8. Exposure Controls and Personal Protection

Exposure Limits: Palladium

OSHA/PEL: No exposure limit established

ACGIH/TLV: No exposure limit established

Engineering Controls: Ensure adequate ventilation to maintain exposures

below occupational limits. Whenever possible the use of local exhaust ventilation or other engineering controls is the preferred method of controlling exposure to airborne dust and fume to meet established occupational exposure limits. Use good housekeeping and

sanitation practices. Do not use tobacco or food in work area. Wash thoroughly before eating or smoking. Do not blow dust off clothing or skin with compressed air.

Respiratory Protection: If permissible levels are exceeded, use NIOSH approved

dust respirator.

Eye Protection: Safety glasses

Skin Protection: Wear impermeable gloves, protective work clothing

as necessary.



9. Physical and Chemical Properties

Appearance:

Form: Solid in various forms

Color: Silver metallic

Odor! Odorless

Odor Threshold: Not determined

pH: N/A

Melting Point: 1554 oC
Boiling Point: 2970 oC

Flash Point: N/A
Evaporation Rate: N/A
Flammability: N/A

Upper Flammable Limit:

No data
Lower Flammable Limit:

No data
Vapor Pressure:

No data
Vapor Density:

N/A

Relative Density (Specific Gravity): 12.02 g/cc @ 20 oC

Solubility in H2O: Insoluble

Partition Coefficient (n-octanol/water): Not determined

Autoignition Temperature: No data

Decomposition Temperature: No data

Viscosity: N/A

10. Stability and Reactivity

Reactivity: No data

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: None expected.

Conditions to Avoid: Avoid creating dusts.

Incompatible Materials: Strong oxidizing agents, acids.

Hazardous Decomposition Products: Palladium oxide fume.



11. Toxicological Information

Likely Routes of Exposure: Inhalation, skin, eyes.

Symptoms of Exposure: May cause irritation.

Acute and Chronic Effects: Palladium metal is relatively inert, however exposure to

palladium particulate may cause an allergic reaction in susceptible individuals. Persons with known nickel allergy

may be at greater risk for sensitization to palladium.

Acute Toxicity: No data

Carcinogenicity: NTP: Not identified as carcinogenic

IARC: Not identified as carcinogenic

To the best of our knowledge the chemical, physical and

toxicological characteristics of the substance are not

fully known.

12. Ecological Information

Ecotoxicity: No data

Persistence and Degradability: No data

Bioaccumulative Potential: No data

Mobility in Soil: No data

Other Adverse Effects: No further relevant information available.

13. Disposable Considerations

Waste Disposal Method

Product: Dispose of in accordance with Federal, State and

Local regulations.

Packaging: Dispose of in accordance with Federal, State and

Local regulations.



14. Transport Information

Shipping Regulations: Not regulated

UN Number: N/A

UN Proper Shipping Name: N/A

Transport Hazard Class: N/A

Packing Group: N/A

Marine Pollutant: No

15. Regulatory Information

TSCA Listed: All components are listed.

Regulation (EC) No 1272/2008 (CLP): N/A

Canada WHMIS Classification

(CPR, SOR/88-66): N/A

HMIS Ratings: Health: 0 Flammability: 0 Physical: 0

NFPA Ratings: Health: 0 Flammability: 0 Instability: 0

Chemical Safety Assessment: A chemical safety assessment has not been carried out.

16. Other Information

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