

MATERIAL SAFETY DATA SHEET

Palladium Powder / Sponge -325 Mesh



HMIS

HEALTH	1
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	C

1. Product And Company Identification

Supplier

DF Goldsmith Chemical and Metal
909 Pitner Avenue
Evanston, IL 60202, USA

Telephone Number: 847-869-7800

FAX Number: 847-869-2531

E-mail: goldchem@aol.com

Web Site: www.dfgoldsmith.com

Manufacturer

DF Goldsmith Chemical and Metal
909 Pitner Avenue
Evanston, IL 60202, USA

Telephone Number: 847-869-7800

FAX Number: 847-869-2531

E-mail: goldchem@aol.com

Web Site: www.dfgoldsmith.com

Supplier Emergency Contacts & Phone Number

Chemtrac: 800-424-9300

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Issue Date: 07/19/2010

Product Name: Palladium Powder / Sponge -325 Mesh

Chemical Name: Palladium Metal, Palladium Powder, Palladium Flake

CAS Number: 7440-05-3

Chemical Family: Metal or Element

Chemical Formula: Pd

MSDS Number: 46-004

Product Code: 46-004

Synonyms

Palladium Metal, Palladium Powder, Palladium Flake, Palladium Sponge

2. Composition/Information On Ingredients

Ingredient Name	CAS Number	Percent Of Total Weight
Palladium	7440-05-3	99 - 100

EMERGENCY OVERVIEW

Warning! May cause allergic skin reaction. May cause eye and skin irritation. May cause respiratory and digestive tract irritation.

Inhalation hazard as a fine dust or fume.

Target Organs: Liver, lungs.

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3. Hazards Identification

Primary Routes(s) Of Entry

Eye: Likely
Skin: Likely
Inhalation: Likely

Eye Hazards

The dust may cause slight to mild irritation of the eyes.

Skin Hazards

The dust may cause skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material.

Ingestion Hazards

Not expected to be a problem in industry. May cause digestive tract irritation.

Inhalation Hazards

Hazard associated with inhalation of fine dust or fume. May cause respiratory tract irritation.

Subchronic (Target Organ Effects)

Chronic/Carcinogenicity Effects

May lead to liver and lung damage.

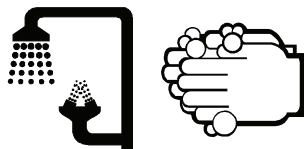
Conditions Aggravated By Exposure

May cause irritation of the respiratory system. Maintain housekeeping and personal hygiene to minimize exposure and prevent sensitization.

Conditions Aggravated By Overexposure

To the best of our knowledge, the chemical, physical, and toxicological properties of this product have not been thoroughly investigated.

First Aid (Pictograms)



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4. First Aid Measures

Eye

Flush for 15 minutes with plenty of water. Contact a physician immediately.

Skin

Flush area for 15 minutes with water and wash with soap and water and rinse thoroughly. If discomfort occurs or persists, contact a physician immediately. Remove contaminated clothing and shoes and wash before reuse.

Ingestion

If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Contact a physician immediately.

Inhalation

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Cough or other symptoms may appear. Contact a physician immediately.

Note To Physician

Ethanol may inhibit methanol metabolism.

Fire Fighting (Pictograms)



5. Fire Fighting Measures

Flash Point Method: NA

Flammability Class: NA

Fire And Explosion Hazards

When metal powder or flake from a solvent suspension is allowed to dry, the residual organic may self-ignite.

Extinguishing Media

Use water spray, foam, dry chemical, carbon dioxide (CO₂), chemical foam, or medium for primary source.

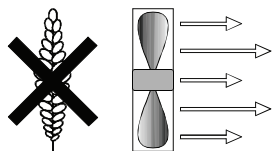
Fire Fighting Instructions

If metal suspension residue self-ignites, use CO₂ or dry powder extinguisher. Use NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

Very fine particles can cause a fire or explosion. Sweep or soak up and place in sealed container; Taking care to avoid dusting. Person protected with full face shield and NIOSH approved respirator and cartridge for dust. Ventilate area and wash spill site after pick-up is complete.

Handling & Storage (Pictograms)



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7. Handling and Storage

Handling Precautions

Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Storage Precautions

Store in a tightly closed container in a cool, dry, well-ventilated place away from incompatible substances.

Work/Hygienic Practices

Use good personal hygiene. Wash thoroughly after handling. Wash thoroughly with soap and water after handling.

Other Precautions

0.01 ppm high efficiency particular respirator/supplied air respirator/self-contained breathing apparatus; 0.2 ppm same as above with full face piece; 1 ppm powdered air purifying respirator with high efficiency filter/type C supplied air respirator operated in pressure demand mode. Store in a sealed container, plastic or plastic liner, in a cool, well ventilated, dry area away from volatile acids.

Protective Clothing (Pictograms)



8. Exposure Controls/Personal Protection

Engineering Controls

Ventilation: Local Exhaust: Required in handling area
Mechanical: Desirable to insure concentration of material below TLV/TWA levels
Other: Closed Ventilation system - dust (Laboratory Fume Hood)

Safety shower and eyewash

Eye/Face Protection

ANSI approved safety glasses/goggles, full face shield

Skin Protection

Rubber/Neoprene (use compatible chemical-resistant gloves)

Respiratory Protection

NIOSH approved chemical cartridge respirator for particulates and dust, if there is a potential for airborne exposure to exceed established threshold value, or self-contained breathing apparatus with full face shield.

Other/General Protection

Lab coat/apron, flame and chemical resistant protective clothing, eye wash, safety shower, and hygiene facilities for washing

9. Physical And Chemical Properties

Appearance

Gray to black powder

Odor

Slight process odor

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9. Physical and Chemical Properties (cont)

Chemical Type: Pure
Physical State: Solid
Melting Point: 1555 °C
Boiling Point: 3167 °C
Specific Gravity: 12.02
Molecular Weight: 106.4
Vapor Pressure: NA
Vapor Density: 12.02 g/cm³
pH Factor: NA
Solubility: Insoluble
Evaporation Rate: NA

10. Stability And Reactivity

Stability: Stable
Hazardous Polymerization: Will not occur

Conditions To Avoid (Stability)

Incompatible materials, dust generation.

Incompatible Materials

Aluminum, arsenic, ozonides, sodium tetrahydroborates, carbon, formic acid, sulfur, hydrogen + hydrogen peroxide.

Hazardous Decomposition Products

Irritating and toxic fumes and gases, hydrogen gas.

11. Toxicological Information

Miscellaneous Toxicological Information

RTECS#:
CAS# 7440-05-3: RT3480500; RT3593400
LD50/LC50:
Not available.
Carcinogenicity:
CAS# 7440-05-3: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

12. Ecological Information

No Data Available...

13. Disposal Considerations

Consult Federal EPA, State and local regulations for proper disposal/recycle/reclamation
NOTE: Chemical additions, processing, or otherwise altering this material may make the waste management information presented above incomplete, inaccurate, or otherwise inappropriate.

RCRA Information

NL

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14. Transport Information

Proper Shipping Name

Non-Hazardous

Additional Shipping Paper Description

IATA: Same as DOT Regulation 49 CFR. Consult IATA regulation for further information.

15. Regulatory Information

U.S. Regulatory Information

This product is TSCA listed.

Canadian Regulatory Information

WGK (Water Danger/Protection)

CAS# 7440-05-3: 0

Canada - DSL/NDSL

CAS# 7440-05-3 is listed on Canada's DSL List.

Canada - WHMIS

WHMIS: Not available.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

European Union (EU) Regulatory Information

Hazard Symbols:

Not available.

Risk Phrases:

R 43 May cause sensitization by skin contact.

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

Other International Regulations

16. Other Information

NFPA Rating

Health: 1

Fire: 1

Reactivity: 0

HMIS Rating

Health: 1

Fire: 1

Reactivity: 0

Personal Protection: C

Revision/Preparer Information

MSDS Preparer: DF Goldsmith Chemical and Metal

MSDS Preparer Phone Number: 847-869-7800

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Disclaimer

In compliance with the OSHA Hazard Communication Standard, 29 C.F.R 1910.1200, we are providing you with a Materials Safety Data Sheet (MSDS) for the hazardous material you are purchasing.

It is your responsibility to educate your employees on the safe use of the hazardous material. With this in mind, a copy should be forwarded to the supervisor of the user or to the user themselves, and copy should be retained in your files for future reference.

DF Goldsmith Chemical and Metal makes no presentation as to the accuracy of the information in the MSDS. The information is believed to be correct; however, you (the customer), should perform your own investigation and independent verification. If you resell the product, you are responsible to forward the information in the MSDS to your customer.

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