

XI'AN FUNCTION MATERIAL GROUP CO., LTD Material Safety Data Sheet

Palladium dichloride

1. Product and Company Identification

Trade Name: Palladium dichloride

Chemical Formula: PdCl₂

Recommended Use: Scientific research and development

Manufacturer/Supplier: XI'AN FUNCTION MATERIAL GROUP CO., LTD

Street: No. 69, Gazelle Valley, High-Tech Zone

City: XI'AN
State: Shannxi
Zip Code: 710077
Country: China

Tel#: +86-29-88993870/+86-13519132051

2. Hazards Identification

Signal Word: Danger



Hazard Statements: H301: Toxic if swallowed.

H317: May cause an allergic skin reaction.

H290: May be corrosive to metals H319: Causes serious eye irritation.

Precautionary Statements: P261: Avoid breathing dust/fume/vapor/gas/ mist/ spray

P264: Wash skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P272: Contaminated work clothing should not be allowed out of the workplace.

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

P301+P310+P330: IF SWALLOWED: Immediately call a POISON

CENTER/doctor. Rinse mouth.

P302+P352: IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P337+P313: If eye irritation persists: Get medical advice/ attention.

P363: Wash contaminated clothing before reuse.

P405: Store locked up.

P406: Store in a corrosive resistant container with a resistant inner liner P501: Dispose of contents/ container to an approved waste disposal

plant.

HMIS Health Ratings (0-4):

Health: 2
Flammability: 0
Physical: 1

3. Composition	
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Palladium dichloride (PdCl ₂):	
Percentage: CAS #:	100 wt% 7647-10-1
EC #:	231-596-2
	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. Keep patient warm. Seek immediate medical attention.
Ingestion:	Seek immediate medical attention.
Skin:	Immediately wash affected area with mild soap and water. Remove any
T.	contaminated clothing. Seek immediate medical attention.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
	contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention.
	5. Firefighting Measures
Flammability:	Non-flammable
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for
Spec. Fire Fighting Procedure:	surrounding material and type of fire.
spec. The righting Frocedure.	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. Keep unprotected persons away. Isolate
	spill area and provide ventilation. Vacuum up spill using a high
	efficiency particulate absolute (HEPA) air filter and place in a closed
To the state of	container for disposal. Take care not to raise dust.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions:	Avoid contact with skin and eyes. Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store away from
	metals, oxidizing agents. 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: Properly operating chemical fume hood designed for hazardous

chemicals and having an average face velocity of at least 100 feet per

minute.

Respiratory Protection: Dust Respirator

Protective Gloves: Nitrile rubber gloves with minimum thickness of 0.11 mm

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: Insoluble **Boiling Point:** N/A Melting Point: 675 °C Flash Point: N/A Autoignition Temperature: N/A Density: 4 g/cc

Molecular weight: 177.33 g/mol

10. Reactivity

Stable under recommended storage conditions Stability:

Reacts With: Oxidizing agents, metals

Incompatible Conditions:

Hazardous Decomposition Products: Metal oxide fume, hydrogen chloride, palladium oxide

None

11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious eye damage

May cause irritation or allergic skin reaction Skin:

Toxic if swallowed Ingestion: Inhalation: May cause irritation

Chronic: N/A

Signs & Symptoms: Contact with skin can cause dermatitis, allergic reactions

Aggravated Medical Conditions:

Median Lethal Dose: 2,704 mg/kg for rat by mouth

Tumorigenic by RTECS criteria. Lungs, Thorax, or Respiration: Carcinogen:

Tumors. Blood: Tumors.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human

carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by

ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by

NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by

OSHA.

12. Ecological Information

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

Notes: 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: 6.1 Toxic substance

Packing Group: III UN Number: UN3288

Proper Shipping Name: Toxic solid, inorganic, n.o.s. (Palladium dichloride)

15. Regulatory Information

Sec 302 Extremely Hazardous:
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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