



SECTION 1: Product Identification

Chemical Name: Palladium (II) oxide (99.9%-Pd)

Product Number: 114

CAS Registry Number: 1314-08-5

Formula: PdO

EINECS Number: 215-218-3

Chemical Family: metal oxide

Synonym: Palladium monoxide

SECTION 2: Composition and Information on Ingredients

| Ingredient | CAS Number | Percent | ACGIH (TWA) | OSHA (PEL) |
|----------------|------------|---------|-------------|------------|
| Title Compound | 1314-08-5 | 100 | no data | no data |

SECTION 3: Hazards Identification

Emergency Overview: The dust may irritate the eyes, skin and respiratory system.

Primary Routes of Exposure: Inhalation

Eye Contact: May cause slight to mild irritation of the eyes.

Skin Contact: May cause slight irritation and dryness of the skin.

Inhalation: May be irritating to the nose, mucous membranes and respiratory tract.

Ingestion: No information available on the effects of ingestion.

Acute Health Effects: Dust may be mechanically irritating to eyes and skin.

Chronic Health Effects: No information available on long-term chronic effects.

NTP: No

IARC: No

OSHA: No

SECTION 4: First Aid Measures



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| Eye Exposure: | Immediately flush the eyes with copious amounts of water for at least 10-15 minutes. A victim may need assistance in keeping their eye lids open. Get immediate medical attention. |
| Skin Exposure: | Wash the affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists. |
| Inhalation: | Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance. |
| Ingestion: | Seek medical attention immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel. |
| SECTION 5: Fire Fighting Measures | |
| Flash Point: | not applicable |
| Autoignition Temperature: | none |
| Explosion Limits: | none |
| Extinguishing Medium: | None. Material is non-flammable. |
| Special Fire Fighting Procedures: | No special fire-fighting procedures. The material is non-flammable. |
| Hazardous Combustion and Decomposition Products: | No hazardous combustion or decomposition products. |
| Unusual Fire or Explosion Hazards: | No unusual fire or explosion hazards. |
| SECTION 6: Accidental Release Measures | |
| Spill and Leak Procedures: | Small spills can be mixed with vermiculite or sodium carbonate and swept up. |
| SECTION 7: Handling and Storage | |
| Handling and Storage: | Store in cool, dry place in tightly closed containers. |
| SECTION 8: Exposure Controls and Personal Protection | |
| Eye Protection: | Always wear approved safety glasses when handling a chemical substance in the laboratory. |



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| Skin Protection: | Wear appropriate chemical resistant gloves and protective clothing. |
| Ventilation: | Material may form a fine dust. If possible, handle the material in an efficient fume hood. |
| Respirator: | If ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 1910.134. |
| Additional Protection: | No additional protection required. |

SECTION 9: Physical and Chemical Properties

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|----------------------|----------------|
| Color and Form: | black powdr. |
| Molecular Weight: | 122.4 |
| Melting Point: | 870°C |
| Boiling Point: | no data |
| Vapor Pressure: | not applicable |
| Specific Gravity: | 8.7 |
| Odor: | none |
| Solubility in Water: | insoluble |

SECTION 10: Stability and Reactivity

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|---------------------------|--|
| Stability: | air and moisture stable solid |
| Hazardous Polymerization: | no hazardous polymerization |
| Conditions to Avoid: | none |
| Incompatibility: | active metals, hydrogen, sulfur, phosphorous |
| Decomposition Products: | none |

SECTION 11: Toxicological Information

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| RTECS Data: | No information available in the RTECS files. |
| Carcinogenic Effects: | No data available |
| Mutagenic Effects: | No data available |



Tetratogenic Effects: No data available

SECTION 12: Ecological Information

Ecological Information: No information available

SECTION 13: Disposal Considerations

Disposal: Dispose of according to local, state and federal regulations.

SECTION 14: Transportation

Shipping Name (CFR): Non-hazardous

Hazard Class (CFR): NA

Additional Hazard
Class (CFR): NA

Packaging Group
(CFR): NA

UN ID Number (CFR): NA

Shipping Name
(IATA): Non-hazardous

Hazard Class (IATA): NA

Additional Hazard
Class (IATA): NA

Packaging Group
(IATA): NA

UN ID Number (IATA): NA

SECTION 15: Regulatory Information

TSCA: Listed in the TSCA inventory.

SARA (Title 313): Title compound not listed.

Second Ingredient: none

Third Ingredient: none