

Palladium Diox		<u>ide</u>	Pricing >
Linear Formula		PdO <sub>2</sub>	
Pubchem CID		82845	
MDL Number		MFCD00054017	
EC No.		234-836-4	
IUPAC Name		dioxopalladium	
Beilstein/Reaxys No.		N/A	
SMILES		O=[Pd]=O	
Inchl Identifier		InChl=1S/2O.Pd	
Inchl Key		OHQLYLRYQSZVLV-UHFFFAOYSA-N	
Signal Word	Warning		
Hazard Statements	H302-H312-H315-H319-H332-H335		
Hazard Codes	Xi		
Risk Codes	36/37/38		
Safety Statements	26-36		
RTECS Number	N/A		
Transport Information	N/A		
WGK Germany	3		

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### **SAFETY DATA SHEET**

**Date Accessed:** 04/24/2024 **Date Revised:** 01/15/2022

### **SECTION 1. IDENTIFICATION**

**Product Identifiers:** All applicable American Elements product codes for CAS #12036-04-3

Relevant identified uses of the substance:

#### Scientific research and development

Supplier details: American Elements 10884 Weyburn Ave. Los Angeles, CA 90024 Tel: +1 310-208-0551

Fax: +1 310-208-0351

Emergency telephone number: Domestic, North America +1 800-424-9300 International +1 703-527-3887

#### **SECTION 2. HAZARDS IDENTIFICATION**

Statement of Hazard: Irritant, Respiratory irritant Acute Health Hazard: Irritant to eyes, skin, mucous membranes and respiratory system.

May be be reful by ingestion, skin observation and

May be harmful by ingestion, skin absorption and inhalation.

Chronic Health Hazard: Not Available

HMIS Rating: H:1 F:0 P:0 NFPA Rating: H:1 F:0 R:0

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.



Pictogram:

Signal Word: Warning

Hazard Statement(s): H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

Precautionary Statement(s): P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P280 Wear protective gloves/protective clothing/eye protection/face

protection.

P301+P312 IF SWALLOWED: call a POISON

CENTER or doctor/physician

IF you feel unwell.

P302+P352 IF ON SKIN: wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and Keep at rest in a

position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P332+P313 IF SKIN irritation occurs: Get medical advice/attention.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: Palladium dioxide hydrate 99.99%

CAS Number: 12036-04-3 MDL Number: MFCD00054017 EINECS Number: 234-836-4

Beilstein Registry Number: Not Available

Molecular Formula: PdO2.xH2O Molecular Weight: 138.42

Content: As specified in product name.

**SECTION 4. FIRST AID MEASURES** 

Eye Contact: Flush eyes with large amounts of water

for fifteen minutes. Separate

eyelids with fingers. If irritation persists, seek medical

attention.

Skin Contact: Wash skin with soap and water. If

irritation persists, seek medical

attention.

Ingestion: Do not induce vomiting. Seek medical

attention.

Inhalation: Move to a fresh air environment. Contact a

physician if breathing becomes difficult.

**SECTION 5. FIREFIGHTING MEASURES** 

Flash Point (°C): Not Available Explosion Limits: Not Available

Auto Ignition Temperature (°C): Not Available

Extinguishing Media: Carbon dioxide, dry chemical

powder, alcohol-resistant foam, or water

spray

Protective Equipment: Wear self-contained respirator

and fully protective impervious suit.

Specific Hazards: May emit hazardous fumes under

fire conditions.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Protection: Wear a self-contained breathing apparatus, rubber boots and gloves,

and disposable coveralls. Dispose of coveralls after use. Remove from

ignition sources if safe to do so. Follow emergency response plan and

contact proper authorities if needed.

Keep unprotected persons away.

Environmental Protection: Keep spills out of sewers and bodies of water. Dike and contain the spill with inert material. Absorb on sand, vermiculite or diatomite.

Transfer material to a container for disposal or recovery. Ventilate area and wash spill site after material pickup is complete.

#### SECTION 7. HANDLING AND STORAGE

Handling and Storage: Avoid breathing dust, vapor, mist or gas. Avoid contact with skin and

eyes. Avoid prolonged or repeated exposure. Use only in a chemical

fume hood. Open and handle container with care. Keep ignition sources

away.

Store in a tightly closed container in a dry, well-ventilated place.

Sensitivities:

Storage Temperature (°C):

Not Available

15 to 30

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use product in a well ventilated area or under a fume hood. Use proper

lab equipment while handling this product. Keep away from

incompatible materials for possible risk of hazardous reaction.

Eye Protection: Wear appropriate protective eyeglass or chemical safety goggles. Make

sure that there is an eyewash station in your vicinity.

Skin Protection: Wear impervious gloves and

protective clothing.

Respiratory Protection: Use a NIOSH approved

respirator when exposure limits are exceeded or if irritation or other symptoms are experienced. Exposure Limits: Country Source Type Value

USA ACGIH TWA Not Available

USA OSHA STEL Not Available USA OSHA PEL Not Available

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Dark red to black powder

Odor: Not Available

Odor Threshold: Not Available Flash Point (°C): Not Available

Auto Ignition

Temperature (°C): Not Available UEL % by Volume: Not Available LEL % by Volume: Not Available Melting Point (°C): Not Available Boiling Point (°C): Not Available Evaporation Rate: Not Available

pH Value: Not Available

Density (g/cm<sup>3</sup>): Not Available

Refractive Index (n<sup>20</sup>D): Not Available

Viscosity: Not Available

Solubility in Water: Not Available Solubility in Other: Not Available

Vapor Pressure (mmHg): Not Available Vapor Density (Air=1): Not Available

#### **SECTION 10. STABILITY AND REACTIVITY**

Stability: Stable under normal temperatures and

pressures.

Incompatibility: Strong oxidizing agents

Reactivity: Product may react with incompatible

materials to release other hazardous substances.

Conditions to Avoid: Heat, flame, sparks, other

ignition sources.

Hazardous

**Decomposition Products:** 

Palladium oxides

## SECTION 11. TOXICOLOGICAL INFORMATION

RTECS Reference:

Target Organs: Not Available

Not Available

Toxicity Data: Not Available

National Toxicology Program (NTP) listed:

Not Available Carcinogenicity:

International Agency for Research on Cancer (IARC)

listed:

Not Available

Potential Symptoms: Not Available

#### **SECTION 12. ECOLOGICAL INFORMATION**

Toxicity: Not Available

## SECTION 13. DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service. Dispose in a manner consistent with federal, state and local environmental regulations.

#### **SECTION 14. TRANSPORT INFORMATION**

DOT: Not Regulated IATA: Not Regulated IMDG: Not Regulated

### SECTION 15. REGULATORY INFORMATION

**United States** 

Toxic Substance Control Act (TSCA) listed: Yes Superfund Amendments and Reauthorization Act

(SARA 302) listed: No

Superfund Amendments and Reauthorization Act

(SARA 311/312) listed: No

Superfund Amendments and Reauthorization Act

(SARA 313) listed: No

European Union

European Inventory of Existing Chemical Substances

(EINECS): 234-836-4

Canada

Canadian Non-Domestic Substances List (NDSL)

listed: Yes

Canadian Domestic Substances List (DSL) listed: No

#### 16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.