

SAFETY DATA SHEET

Issue Date 27-Nov-2025
Revision Number 2.05

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product identifier**

Product Name Platinum(IV) Oxide

Other means of identification

Product Code(s) 169-08341

Recommended use of the chemical and restrictions on use

Recommended Use For research use only.

Uses advised against Seek expert judgment when using for purposes other than those recommended.

Details of the supplier of the safety data sheet**Manufacturer Address**

FUJIFILM Wako Pure Chemical Corporation
1-2, Doshomachi 3-Chome,

Chuo-ku Osaka 540-8605, Japan

Tel : +81-6-6203-3741

Fax: +81-6-6201-5964

Distributor

FUJIFILM Irvine Scientific
E. Warner Avenue, Santa Ana, CA 92705-5505, U.S.A.: +1 949 261 7800
Fax: +1 949 261 6522

2. HAZARDS IDENTIFICATION**GHS classification****Classification of the substance or mixture**

Oxidizing solids

Category 2

Serious eye damage/eye irritation

Category 2A

Pictograms

Signal word

Danger

Hazard statements

H272 - May intensify fire; oxidizer

H319 - Causes serious eye irritation

Precautionary statements-(Prevention)

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking Keep/Store away from clothing/ combustible materials Take any precaution to avoid mixing with combustibles

Precautionary statements-(Response)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Precautionary statements-(Storage)

Not applicable

Precautionary statements-(Disposal)

Dispose of contents/container to an approved waste disposal plant

Others**Other hazards**

Not available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula PtO₂

| Chemical Name | Molecular weight | CAS RN | Weight-% |
|--------------------|------------------|-----------|--------------|
| Platinum(IV) Oxide | 227.08 | 1314-15-4 | 98.0 - 103.0 |

Impurities and/or Additives: Not applicable

4. FIRST AID MEASURES

First aid measures

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact Wash skin with soap and water.

Inhalation Remove to fresh air.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing media

Flood with water. Sand.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Explosion data

Sensitivity to Mechanical Impact none.

Sensitivity to Static Discharge none.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation, especially in confined areas.

Environmental precautions

Environmental precautions See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods and material for containment and cleaning up Sweep up and gather scattered particles, and collect it in an empty airtight container.

Methods for cleaning up Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical measures Flammable. Do not give shock. Avoid contact with reducing agents and combustible materials. To cut with care and wear protective gloves and protective goggles to ampoule time of the opening (Cutting method to check the label).

Protective measures Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage conditions Store away from sunlight in well-ventilated place at room temperature (preferably cool). Keep container tightly closed.

Packaging materials Glass.

Incompatible materials Organic substance, Combustible materials. Reducing agent.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and hand- and eye-wash facility. And display their position clearly.

Exposure limits Not applicable

Personal protective equipment

Respiratory protection Dust mask (JIS T 8151)

Hand protection chemical protective gloves (JIS T 8116)

Eye protection protective eyeglasses or chemical safety goggles (JIS T 8147)

Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form

Color

Appearance

blackish brown - black

Odor

powder

pH

Odorless

Melting point/freezing point

no data available

Boiling point, initial boiling point and boiling range

450 °C

Flash point

no data available

Evaporation rate:

no data available

Flammability (solid, gas):

no data available

Upper/lower flammability or

| | |
|--|--|
| explosive limits | |
| Upper: | no data available |
| Lower: | no data available |
| Vapour pressure | no data available |
| Vapour density | no data available |
| Specific Gravity / Relative density | no data available |
| Solubilities | hydrochloric acid , nitric acid , sulfuric acid : practically insoluble,or insoluble . |
| n-Octanol/water partition coefficient:(log Pow) | no data available |
| Auto-ignition temperature: | no data available |
| Decomposition temperature: | > 500 °C |
| Viscosity (coefficient of viscosity) | no data available |
| Dynamic viscosity | no data available |
| Particle characteristics | no data available |

10. STABILITY AND REACTIVITY

Stability

| | |
|--|--|
| Chemical stability | Stable under recommended storage conditions. |
| Reactivity | no data available |
| Hazardous reactions | |
| None under normal processing | |
| Conditions to avoid | |
| Extremes of temperature and direct sunlight, Heat, flames and sparks, static electricity, spark, Shock | |
| Incompatible materials | |
| Organic substance, Combustible materials, Reducing agent | |
| Hazardous decomposition products | |
| No information available | |

11. TOXICOLOGICAL INFORMATION

| | |
|-----------------------|-------------------|
| Acute toxicity | no data available |
|-----------------------|-------------------|

| | |
|--|-------------------|
| Skin irritation/corrosion | no data available |
| Serious eye damage/ irritation | no data available |
| Respiratory or skin sensitization | no data available |
| Reproductive cell mutagenicity | no data available |
| Carcinogenicity | no data available |
| Reproductive toxicity | no data available |
| STOT-single exposure | no data available |
| STOT-repeated exposure | no data available |
| Aspiration hazard | no data available |

12. ECOLOGICAL INFORMATION

| | |
|--------------------|--|
| Ecotoxicity | |
| no data available | |

| | |
|--------------------------------------|--|
| Persistence and degradability | |
| No information available | |

| | |
|----------------------------------|--|
| Bioaccumulative potential | |
| No information available | |

Mobility

no data available

Mobility in soil

No information available

Other Data

No information available

13. DISPOSAL CONSIDERATIONS**Waste treatment methods****Disposal of wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Precautionary including method of disposing contaminated packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.**14. TRANSPORT INFORMATION****DOT**

| | |
|-------------------------|--|
| UN/ID No | UN1479 |
| Proper shipping name: | Oxidizing solid, n.o.s. (Platinum(IV) Oxide) |
| UN classification | 5.1 |
| Subsidiary hazard class | |
| Packing group | II |
| Marine pollutant | Not applicable |

IATA

| | |
|-------------------------------------|--|
| UN/ID No | UN1479 |
| Proper shipping name: | Oxidizing solid, n.o.s. (Platinum(IV) Oxide) |
| UN classification | 5.1 |
| Subsidiary hazard class | |
| Packing group | II |
| Environmentally Hazardous Substance | Not applicable |

IMDG

| | |
|-------------------------|--|
| UN/ID No | UN1479 |
| Proper shipping name: | Oxidizing solid, n.o.s. (Platinum(IV) Oxide) |
| UN classification | 5.1 |
| Subsidiary hazard class | |
| Packing group | II |
| Marine pollutant (Sea) | Not applicable |

15. REGULATORY INFORMATION**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical Name | CAS RN | Weight-% | SARA 313 - Threshold Values % |
|--------------------------------|-----------|--------------|-------------------------------|
| Platinum(IV) Oxide - 1314-15-4 | 1314-15-4 | 98.0 - 103.0 | N/A |

SARA 311/312 Hazard Categories

| | |
|-----------------------|----|
| Acute health hazard | No |
| Chronic Health Hazard | No |

| | |
|-----------------------------------|----|
| Fire hazard | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard | No |

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product does not contain any chemicals regulated by Proposition 65

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

Issue Date 27-Nov-2025

Revision Note

No information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet