

## GHS Safety Data Sheet

SDS No. : WWE02PAEG-1

Date Issued : 2014/02/27

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### Section 1. Identification of the substance or mixture and of the supplier

#### Product Information

Product name: W Tungsten

Product number:	Purity	Form	Size or Shape
WWE04PB	99.9%(3N)	fine powder	ca.8 μm
WWE05PB	3N	fine powder	ca.5 μm
WWE06PB	3N	fine powder	ca.3 μm
WWE07PB	3N	fine powder	ca.2 μm
WWE08PB	3N	fine powder	ca.1 μm
WWE09PB	3N	fine powder	ca.0.6 μm
WWE13PB	99.99%(4N)	powder	ca.0.6~0.99 μm
WWE20PB	4N	powder	ca.1.0~0.49 μm
WWE15PB	4N	powder	ca.1.5~1.99 μm
WWE16PB	4N	powder	ca.2~3.99 μm

#### Company Information:

Manufacturer : Kojundo Chemical Laboratory Co., Ltd.

1-28, 5-chome, Chiyoda, Sakado-shi, Saitama Japan 350-0284

Phone: +81-49-284-1511 Fax: +81-49-284-1351

Emergency Phone : +81-49-284-1511

**Recommended uses and restrictions on use:** For research purposes

### Section 2. Hazards identification

#### GHS Classification

Health Hazards	Environmental Hazards	Physical Hazards
Serious eye damage/eye irritation : Category 2B Specific target organ toxicity, single exposure : Category 3	No data available	Flammable solids : Category 1

GHS Label: F, W



Pictograms or symbols:

Warning word: DANGER

Hazard information	Description of precaution
<b>Flammable solid</b> <b>Causes eye irritation</b> <b>May cause respiratory irritation</b>	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use explosion-proof electrical/ventilating/lighting/.../equipment. Take precautionary measures static discharge. Avoid breathing dust/mist/gas/fume/vapors/spray. Do not eat, drink or smoke when using this product, and wash hands thoroughly after handling. Use only outdoors or in well-ventilated area. IN CASE OF FIRE: Wear protective gloves/eye protection/face protection. Use 《refer to our SDS》 to extinguish. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



High Purity Materials

**KOJUNDO CHEMICAL LABORATORY CO.,LTD.**

Call a POISON CENTER or doctor/physician if you feel unwell.  
 Protect from sunlight. Store in a cool, dry and well-ventilated place. Keep container tightly closed.  
 Store locked up.  
 Dispose of contents/ container in accordance with local/national regulations.

### Section 3. Composition / information on ingredients

Chemical or common name: Tungsten  
 Chemical formula: W  
 Single Substance or Compound: Single substance  
 Composition: 100%  
 CAS #: 7440-33-7  
 RTECS#: YO7175000  
 TSCA inventory : listed  
 EINECS: 2311439

### Section 4. First aid measures

Eye contact: Promptly wash eyes with plenty of water while lifting the eye lids.  
 Continue to rinse for at least 15 minutes and get medical attention.  
 Skin contact: Promptly flush contaminated skin with soap or mild detergent and water.  
 Contact physician if irritation continues.  
 Inhalation: Remove the exposed person immediately and provide fresh air.  
 Get medical attention.  
 Ingestion: Rinse mouth and throat with water. Get medical attention immediately.

### Section 5. Fire fighting measures

Extinguishing media:  
 Dry sand, Perlite ,Metal fire extinguishers.  
 DO NOT use water fog or foam, carbon dioxide.  
 Fire fighting: Flammable material.  
 Remove containers to safe place if possible.  
 Self-contained breathing apparatus and full protective clothing should be used, if the material is involved in fire.

### Section 6. Accidental release measures

Personal Precautions:  
 Workers should use protective wears to prevent contact with the spilt adhesive and inhalation of its vapor/dusts.  
 Environmental hazard precautions:  
 Shut off leak if without risk.  
 Prevent flow out to river, etc. so as not to badly affect.  
 Method for containment and cleaning up:  
 Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.  
 Wear disposable coveralls and discard them after use.  
 Remove all sources of ignition.  
 Avoid unnecessary contacts with spills.  
 Indoor leakage: Ventilate as much as possible until the cleaning is completed.  
 Outdoor leakage: Work from the windward and evacuate the leeward crowd.  
 Absorb or cover with vermiculite or other suitable absorbent, and dispose of DOT-approved waste containers as much as possible.  
 Carefully wash spill site with plenty of water after material pick up.



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## Section 7. Handling and storage

### Precautions to be taken in handling:

Safe handling: Use protective wears and local ventilation equipment, if inhalation or skin contact is foreseen.  
 Avoid prolonged or repeated exposure.  
 Air and moisture sensitive. Light sensitive.  
 Keep away from heat, sparks and naked flame.  
 Electrically ground all equipment when handling this material and use only non-sparking tools.

### Precautions to be taken in storage:

General precautions: Store the material in a sealed container, or in the original container under dry inert atmosphere.  
 Store in a cool, dry, well ventilated and dark place away from incompatible materials.  
 Keep away from any heat, sparks, and flames.

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## Section 8. Exposure controls / personal protection

Exposure guideline: ACGIH(2019) : TLV-TWA 3mg/m<sup>3</sup> (respirable particles)  
 OSHA(2006) : No data available  
 Facility measures: Local ventilation of closed work room or total proper ventilation to prevent inhalation.  
 Protective ware: Wear appropriate NIOSH/MSHA-approved respirator, safety goggles, protective gloves.

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## Section 9. Physical and chemical properties

Color and Form: Silver white solid  
 Chemical formula: W  
 Formula weight: 183.84  
 Melting point: 3410 °C  
 Boiling point: 5657 °C  
 Density: 19.3 g/cm<sup>3</sup>  
 Solubility: Insoluble; water  
 Soluble; hydrofluoric acid + nitric acid, heat aqua regia  
 Flammability: Combustible substance  
 Oxidation: None

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## Section10. Stability and reactivity

Stability: Stable in closed container.  
 Reactivity  
 Incompatibility: Strong acids, strong oxidizing agents, halogens

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## Section11. Toxicological information

Acute toxicity: GHS : No data available  
 Skin corrosive / irritation: GHS : No data available  
 Serious eye damage / irritation: GHS : Category 2B ; Causes eye irritation  
 Respiratory sensitization: GHS : No data available  
 Skin sensitization: GHS : No data available  
 Germ cell mutagenicity: GHS : No data available  
 Carcinogenicity: GHS : No data available  
 Reproductive toxicity: GHS : No data available



## Specific target organ toxicity

- single exposure: GHS : Category 3 ; May cause respiratory irritation
- repeated exposure: GHS : No data available

Aspiration hazard: GHS : No data available

**Section12. Ecological information**

## Ecotoxicity:

Hazardous to the aquatic environment

- acute toxicity: GHS : No data available
- chronic toxicity: GHS : No data available

Hazardous to the ozone layer GHS : No data available  
No Freon or Halon

Fish toxicity: No data available

Degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

**Section13. Disposal considerations**

Disposal method: User of the product should contract with the local government or licensed 'Industrial Waste Haulers' for disposal of waste.

**Section 14. Transport information**

UN number: 3089  
IATA shipping name: Metal powder, flammable, n.o.s.  
IATA hazard class: Class 4.1 (Flammable solids)  
IATA packing group: II  
HS code: 8101.10  
Marine pollution: None

**Section 15. Regulatory information**

TSCA inventory: listed.

Please refer to any other local / national measures that may be relevant.

**Section 16. Other information**

This SDS is for provision of information, and it does not represent a guarantee the properties or safeties of the product.

The information herein is based on the references we could obtained and the present state of our knowledge, however, this SDS does not always cover all information about the product.

Some new information or amendments may be added afterwards.

Prior to use, please investigate the laws and regulations of the organization, area and country where the product is to be used. The information is intended to ordinary usage, in case of special handling, sufficient care should be taken.

