

Safety Data Sheet



1. IDENTIFICATION OF THE SUBSTANCE

| | |
|--------------------------------|---|
| Product name : | Product Wafer RF300mm |
| Catalogue No : | NA |
| Manufacturer/supplier : | Tower Partners Semiconductor Co., Ltd. (TPSCo) |
| Address : | 800 Higashiyama, Uozu City, Toyama 937-8585 Japan |
| Emergency telephone No / Fax : | +81-765-22-5521 |
| Ver.: | 1.4 |
| Date: | July.10.2023 |

2.COMPOSITION/INFORMATION ON INGREDIENT

| ELEMENT | CAS NUMBER | CONTENT |
|----------------|------------|-----------|
| Silicon | 7440-21-3 | >99.5 % |
| Arsenic (As) | 7440-38-2 | <0.0002 % |
| Boron (B) | 7440-42-8 | <0.0002 % |
| Phosphorus (P) | 7723-14-0 | <0.0002% |
| Tungsten (W) | 7440-33-7 | <0.05 % |
| Tantalum (Ta) | 7440-25-7 | <0.1 % |
| Aluminum (Al) | 7429-90-5 | <0.1 % |
| Copper (Cu) | 7440-50-8 | <0.2 % |

3.HAZARDS IDENTIFICATION

| | |
|---------------------------------|----|
| Principal hazards : | NA |
| Environments effect : | NA |
| Physical and chemical hazards : | NA |
| Specifics hazards : | NA |
| Principal symptoms : | NA |
| Hazard class : | NA |

4.FIRST AID MEASURES

| | |
|---------------------|------------------|
| Inhalation : | NA |
| Contact with skin : | Flush with water |

Safety Data Sheet



| | |
|---------------------|------------------|
| Contact with eyes : | Flush with water |
| Ingestion : | NA |

5. FIRE-FIGHTING MEASURES

| | |
|----------------------------------|----|
| Extinguishing media : | NA |
| Unsuitable extinguishing media : | NA |
| Specific hazards : | NA |
| Protection measures : | NA |

6. ACCIDENTAL RELEASE MEASURES

| | |
|---|----|
| Personal precautions : | NA |
| Environmental precautions : | NA |
| Methods for cleaning up : Use dustless method (vacuum) and place into closable container for disposal, or flush with water. | |

7. HANDLING AND STORAGE

| | |
|------------|----|
| Handling : | NA |
| Storage : | NA |

8. EXPOSURE CONTROL / PERSONAL PROTECTION

| | |
|----------------------|----------------------------------|
| Technical measures : | No information |
| Personal : | NA |
| Respiratory : | Dust mask. |
| Hands : | Impervious gloves |
| Eyes : | Safety or chemical tight goggles |
| Skin and body : | NA |

Safety Data Sheet



9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------------------|--|
| Appearance : Solid | Color : Iron grey |
| pH value : NA | Odor : None |
| Melting point : NA | Boiling point / range : 2355°C |
| Auto ignition temperature : NA | Flash point : NA ℉ NA °C |
| Vapor pressure (air=1) : NA | Explosion limits : NA |
| Relative vapor density : NA | Solubility in water : Insoluble in water |
| density : 2.33 (specific gravity) | evaporation : NA |

10. STABILITY AND REACTIVITY

| |
|--|
| Stability : Stable |
| Conditions to avoid : Contact with powerful oxidizing agents such as Fluorine, Chlorine Trifluoride, Oxygen Difluoride, may cause fires. |
| Materials to avoid : Strong oxidizing agents. |
| Hazardous decomposition products : Silicon will dissolve in Hydrofluoric acid and produce a corrosive gas- Silicon Tetrafluoride. |

11. TOXICOLOGICAL INFORMATION

| | |
|-------------------------|----|
| Acute toxicity : | NA |
| Locals effects : | NA |
| Irritation : | NA |
| Corrosiveness of skin : | NA |

12. ECOLOGICAL INFORMATION

| | |
|-----------------|----|
| Resolvability : | NA |
| stockpiling : | NA |

13. DISPOSAL CONSIDERATIONS

| | |
|------------------|---|
| Waste disposal : | Landfill or recycle in accordance with local regulations for the waste. |
|------------------|---|

Safety Data Sheet



| | |
|-----------|----|
| caution : | NA |
|-----------|----|

14. TRANSPORTATION INFORMATION

| | |
|------------------------------|----|
| Transportation information : | NA |
|------------------------------|----|

15. REGULATORY INFORMATION

| | |
|---------------------|----|
| Fire fighting law : | NA |
|---------------------|----|

16. OTHER INFORMATION

| | |
|---------------------|----|
| other information : | NA |
|---------------------|----|