

	<b>Product Wafer MSDS</b>	Rev 2.0
		06.01.2022

## MATERIAL SAFETY DATA SHEET

### 1.0 IDENTIFICATION

**Product Name:** (8") 0.18 $\mu$  Silicon Wafer  
**General Use:** Semiconductor Manufacturing  
**Product Description:** Semiconductor Finished product

#### MANUFACTURE

**Company Name:** Tower Semiconductor LTD.  
**Address:** Tower Semiconductor Texas, 9651 Westover Hills Blvd, San Antonio, TX – 78251, USA

**Responsible Div:** QA & Safety  
**Telephone:** +1 210-522-7952  
**Fax:** 1-210-522-7703  
**EMERGENCY TELEPHONE NUMBER:** +1 210-522-7952

### 2.0 COMPOSITION / INFORMATION ON INGREDIENTS

Substances / Mixture : Mixture

Composition (Element)	CAS No.	Proportion (%)
Silicon (Si)	7440-21-3	99.60
Other minority Dopant		
Aluminum (Al)	7429-90-5	<0.25
Titanium (Ti)	7440-32-6	<0.04
Indium (In)	7440-74-6	<0.002
Tungsten (W)	7440-33-7	<0.07
Cobalt (Co)	7440-48-4	<0.002
Arsenic (As)	7440-38-2	<0.002
Copper	7440-50-8	<0.002
Boron	7440-42-8	<0.002
Phosphorus	7723-14-0	<0.005

### 3.0 HAZARDS IDENTIFICATION

**Hazard effects**  
**Human health effects:** Skin contact causes irritation.

	Product Wafer MSDS	Rev 2.0
		06.01.2022

Environmental effects: NA  
Class name of hazard: NA

## MATERIAL SAFETY DATA SHEET

### 4.0 FIRST AID MEASURES

Inhalation: NA  
Eye: NA

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### 5.0 FIRE FIGHTING MEASURES

Measures: Shut off fuel as much as possible.  
Equipments: Dry chemical or carbon dioxide should be used for small fire.  
Fire fighters should wear proper protective clothes.

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### 6.0 ACCIDENTAL RELEASE MEASURES

Equip extinguishers in case of ignition.  
Quickly shut off all ignition sources.

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### 7.0 HANDLING AND STORAGE

Handling: Fragile-Handle with care.  
Shut off all sources of ignition.  
Do not bring contaminated protective tool, such as gloves, to the lounge.  
Be careful of personal health after handling.  
Storage: Keep away all sources of ignition.  
Do not heat.  
Store in well-ventilated area.  
Keep dry.

	<b>Product Wafer MSDS</b>	Rev 2.0
		06.01.2022

## MATERIAL SAFETY DATA SHEET

### 8.0 EXPOSURE CONTRROLS/PERSONAL PROTECTION

EXPOSURE LIMIT VALUES: NA  
 EXPOSURE CONTROLS  
 Engineering controls: NA  
 Personal protection  
 Respiratory protection: NA  
 Eye protection: NA  
 Skin protection

### 9.0 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Chip  
 Color: Silver / Gray  
 Boiling Point: Not Available  
 Melting Point: - Not Available  
 Density: - Not Available  
 Vapor Pressure: - Not Available  
 Vapor Density: - Not Available  
 Solubility in water: Insoluble

### 10. STABILTY AND REACTIVITY

STABILITY: Stable  
 MATERIALS TO AVOID

### 11. TOXICOLOGICAL INFORMATION

Acute toxicity  
 Sensitization – N/A  
 Chronic Toxicity - N/A  
 Mutagen city - N/A  
 Carcinogenicity - N/A  
 IARC - N/A  
 NTP - N/A  
 OSHA - N/A

	Product Wafer MSDS	Rev 2.0
		06.01.2022

Reproductive and  
Developmental Toxicity - N/A  
Other – N/A

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### 12. ECOLOGICAL INFORMATION

ECOTOXICITY -  
PERSISTENCE AND  
DEGRADABILITY -  
BIOACCUMULATIVE  
POTENTIAL –

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### 13. DISPOSAL CONSIDERATION

Disposal method: All excess material must be collected and transferred to a Professional waste disposal company for treatment.  
Carefully review information in **-7.HANDLING & STORAGE.**

Special control industrial Disposal

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### 14.0 TRANSPORT INFORMATION

UN sorts – N/A  
Domestic regulation – N/A  
Special safety measurement  
And condition

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### 15.0 REGULATORY INFORMATION

N/A

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### 16.0 OTHER INFORMATION

N/A

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