

**Product name:** Solid silicon wafer or chips  
**Document Nr.:** SDS0011000845

**Date:** October 5th 2022  
**Version:** 4.0 **Page 1 of 10**

## Section 1: Identification of the substance or mixture and the company

### 1.1. Product Identifier

Solid silicon (Si) wafer or chips EC #: 231-130-8 CAS #: 7440-21-3  
The substances do not require registration according to regulation (EC) N. 1907/2006 (REACH).

### 1.2 Relevant applications of the material and uses advised against

Wafers, substrate, Si-chip, supports, calibration standards

### 1.3. Company details

Vof Micro to Nano  
Tappersweg 91  
2031ET Haarlem  
Netherlands  
Tel: +31(0)85-2013155  
E: info@microtonano.com

### 1.4 Emergency telephone number

+31(0)85-2013155 (office hours) Vof Micro to Nano, Netherlands

## Section 2: Hazards identification

### 2.1. Classification of the substance or mixture according to Regulation EC Nr. 1272/2008 CLP

This substance in solid form is not classified as hazardous in accordance with regulation Nr. 1272/2008/EC

### 2.2 Labeling elements

#### Labelling accordance to Regulation EC. Nr 1272/2008

Not needed

(Contd. on page 2)



**Micro to Nano**  
Innovative Microscopy Supplies

Tappersweg 91  
2031ET Haarlem  
The Netherlands

T +31-85-2013155  
E info@microtonano.com  
I www.microtonano.com

**Product name:** Solid silicon wafer or chips  
**Document Nr.:** SDS0011000845

**Date:** October 5th 2022  
**Version:** 4.0 Page 2 of 10

(Contd. of page 1)

## 2.3 Other hazards

### Results of PBT and vPvB assessment

According to the results of its assessment, the substance is not a PBT or a vPvB

## Section 3: Composition / information on components

### 3.1. Substances

Solid silicon (Si) wafer or chips

EC #: 231-130-8

CAS #: 7440-21-3

### 3.2 Mixtures

Not applicable

## Section 4: First aid measures

### 4.1. Description of first aid measures

Contact with eyes:	Rinse cautiously with water for several minutes. If possible, remove contact lenses. Continue rinsing.
Contact with skin:	Brush off loose particles from skin. Rinse skin with water/shower.
Inhalation:	Provide fresh air. There is no major dust generation possible.
Ingestion:	Rinse mouth. Seek medical assistance if you feel unwell

### 4.2. Important symptoms and effects, either immediate or delayed

Symptoms and effects are not known to date.

### 4.3. Indication of any immediate medical attention and special treatment

None

(Contd. on page 3)



**Micro to Nano**  
Innovative Microscopy Supplies

Tappersweg 91  
2031ET Haarlem  
The Netherlands

T +31-85-2013155  
E [info@microtonano.com](mailto:info@microtonano.com)  
I [www.microtonano.com](http://www.microtonano.com)

**Product name:** Solid silicon wafer or chips  
**Document Nr.:** SDS0011000845

**Date:** October 5th 2022  
**Version:** 4.0 **Page 3 of 10**

---

(Contd. of page 2)

## **Section 5: Firefighting Measures**

### **5.1. Extinguishing media**

Water, foam, dry extinguishing powder, ABC-Powder. Do not use water jet.

### **5.2 Special hazards arising from the substance or mixture**

Non-combustible

### **5.3 Advice to firefighters**

Fight fire from a safe distance, with adequate cover.  
Do not move the load if exposed to heat.  
In case of fire: do not breathe fumes.  
Wear self-contained breathing apparatus for fire fighting

## **Section 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

No special measures are necessary.

### **6.2 Environmental precautions**

Do not allow to enter public sewers and waterways

### **6.3 Methods and material for containment and clean up**

Pick up mechanically

### **6.4 Reference to other sections**

For further information see section 7, 8 and 13.

(Contd. on page 4)



**Micro to Nano**  
Innovative Microscopy Supplies

Tappersweg 91  
2031ET Haarlem  
The Netherlands

T +31-85-2013155  
E [info@microtonano.com](mailto:info@microtonano.com)  
I [www.microtonano.com](http://www.microtonano.com)

**Product name:** Solid silicon wafer or chips  
**Document Nr.:** SDS0011000845

**Date:** October 5th 2022  
**Version:** 4.0 **Page 4 of 10**

(Contd. of page 3)

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

No special measures are necessary. Control dust.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool dry place

### 7.3 Specific end uses(s)

Not required

## Section 8: Exposure control and personal protection

### 8.1. Control parameters

#### Occupational exposure limits (OEL)

Ingredient	Material Name	Source	TWA	STEL	Ceiling -C	Notes
Silicon dust	Silicon (Si)	EU	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>		

### 8.2 Exposure controls

**Control procedures:** Avoid creating or accumulating dust or fine particles  
Wash hands before breaks and at the end of the work  
Maintain appropriate working environment

**Personal protection:** Protective work clothing

**Inhalation:** Use suitable respirator when high concentrations are present

**Hands and skin:** Hand protection is not required

**Eyes:** Wear safety goggles with side protection or full-face protection

(Contd. on page 5)



**Micro to Nano**  
Innovative Microscopy Supplies

Tappersweg 91  
2031ET Haarlem  
The Netherlands

T +31-85-2013155  
E [info@microtonano.com](mailto:info@microtonano.com)  
I [www.microtonano.com](http://www.microtonano.com)

**Product name:** Solid silicon wafer or chips  
**Document Nr.:** SDS0011000845

**Date:** October 5th 2022  
**Version:** 4.0 Page 5 of 10

(Contd. of page 4)

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance/physical state:	Solid
Colour:	Gray
Odour:	None
pH	Not applicable
Melting point/range:	1410 °C
Boiling point/range:	2355 °C
Flammability:	Not available
Flash point:	Not determined
Evaporation rate:	Not available
Explosion limits: upper limit:	Not determined
lower limit:	Not determined
Vapour pressure:	Not applicable
Relative density:	2.33 g/cm <sup>3</sup> @ 20°C
Solubility in water:	Practically insoluble in water
Auto-ignition:	Not determined
Viscosity:	Not applicable

### 9.2 Other information

None

## Section 10: Stability and reactivity

### 10.1. Reactivity

This material is not reactive under normal ambient conditions.

### 10.2 Chemical stability

Stable under recommended storage conditions

### 10.3 Possibility of hazardous reactions

Silicon dust or fine particles will burn when exposed to an ignition source

(Contd. on page 6)



**Micro to Nano**  
Innovative Microscopy Supplies

Tappersweg 91  
2031ET Haarlem  
The Netherlands

T +31-85-2013155  
E [info@microtonano.com](mailto:info@microtonano.com)  
I [www.microtonano.com](http://www.microtonano.com)

**Product name:** Solid silicon wafer or chips  
**Document Nr.:** SDS0011000845

**Date:** October 5th 2022  
**Version:** 4.0 Page 6 of 10

(Contd. of page 5)

## 10.4 Conditions to avoid

Avoid creating or accumulation of dust or fine particles

## 10.5 Incompatible materials

Halogens, halogen compounds, bases, hydrofluoric acid, alkali carbonates, water and steam

## 10.6 Hazardous decomposition products

Silicon oxide, hydrogen

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

#### Information hazard classes as defined in Regulation (EC) Nr. 1272/2008

This substance does not meet the criteria for classification in accordance with regulation No 1272/2008/EC.

<b>Inhalation:</b>	Shall not be classified as presenting an aspiration hazard
<b>Skin contact:</b>	Shall not be classified as a respiratory or skin sensitiser
<b>Eye contact:</b>	Shall not be classified as seriously damaging to the eye or eye irritant
<b>Sensitisation:</b>	Shall not be classified as a respiratory or skin sensitiser
<b>Germ cell mutagenicity:</b>	Shall not be classified as germ cell mutagenic
<b>Carcinogenicity:</b>	Shall not be classified as carcinogenic
<b>Reproductive toxicity:</b>	Shall not be classified as a reproductive toxicant
<b>Specific target organ toxicity – single exposure:</b>	Shall not be classified as a specific target organ toxicant
<b>Specific target organ toxicity – repeated exposure:</b>	Shall not be classified as a specific target organ toxicant

#### Toxicological data:

Shall not be classified as acutely toxic. **Symptoms related to the physical, chemical and toxicological characteristics**

<b>If swallowed:</b>	Data are not available
<b>If in eyes:</b>	Data are not available
<b>If inhaled:</b>	Data are not available
<b>If on skin:</b>	Data are not available
<b>Other information:</b>	Health effects are not known

(Contd. on page 7)



**Micro to Nano**  
Innovative Microscopy Supplies

Tappersweg 91  
2031ET Haarlem  
The Netherlands

T +31-85-2013155  
E [info@microtonano.com](mailto:info@microtonano.com)  
I [www.microtonano.com](http://www.microtonano.com)

**Product name:** Solid silicon wafer or chips  
**Document Nr.:** SDS0011000845

**Date:** October 5th 2022  
**Version:** 4.0      **Page 7 of 10**

---

(Contd. of page 6)

### 11.2. Endocrine disrupting properties

Not listed

### 11.3. Information on other hazards

There is no additional information

## Section 12: Ecological information

### 12.1. Aquatic toxicity

Shall not be classified as hazardous to the aquatic environment.

### 12.2 Persistence and degradability

No data available

### 12.3 Bio-accumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

No data available

### 12.6 Endocrine disrupting properties

Not listed

### 12.7 Hazardous decomposition products

No information available

(Contd. on page 8)



**Micro to Nano**  
Innovative Microscopy Supplies

Tappersweg 91  
2031ET Haarlem  
The Netherlands

T +31-85-2013155  
E [info@microtonano.com](mailto:info@microtonano.com)  
I [www.microtonano.com](http://www.microtonano.com)

**Product name:** Solid silicon wafer or chips  
**Document Nr.:** SDS0011000845

**Date:** October 5th 2022  
**Version:** 4.0 Page 8 of 10

(Contd. of page 7)

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Product:** This material and its container must be disposed of in a safe way.  
Do not discharge into drains or the environment, dispose to an authorised waste collection point.

**National regulations:** Disposal should be in accordance with local, state or national legislation.

## Section 14: Transport information

### 14.1. UN number

UN-number: N/A

### 14.2 UN proper shipping name

Proper shipping name: N/A

### 14.3 Transport hazard class(es)

Class: N/A  
ADR/RID-Classification code: N/A

### 14.4 Packing group

Packing: N/A

### 14.5 Incompatible materials

ADR/RID- Environmentally hazardous: N/A  
IMDG-Marine pollutant: N/A  
IATA/ICAO-Environmentally hazardous: N/A

### 14.6 Special precautions for user

ADR/RID-Tunnel code: N/A

(Contd. on page 9)



**Micro to Nano**  
Innovative Microscopy Supplies

Tappersweg 91  
2031ET Haarlem  
The Netherlands

T +31-85-2013155  
E [info@microtonano.com](mailto:info@microtonano.com)  
I [www.microtonano.com](http://www.microtonano.com)

**Product name:** Solid silicon wafer or chips

**Date:** October 5th 2022

**Document Nr.:** SDS0011000845

**Version:** 4.0

Page 9 of 10

IMDG-Ems: N/A

IATA/ICAO-PAX: N/A

IATA/ICAO-CAO: N/A

(Contd. of page 8)

## 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

Not applicable

## Section 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**Regulation 649/2023/EA concerning the export/import of hazardous chemicals (PIC):** Not listed

**Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS):** Not listed

**Regulation 850/2004/EC on persistent organic pollutants:** Not listed

**Restrictions according to REACH, Annex XVII:** Not listed

**Restrictions according to REACH, Title VIII:** None

**List of substances subject to authorization (REACH, Annex XIV)/SVHC – candidate list:** Not listed

### 15.2 Chemical safety assessment

No information available

## Section 16: Other information

### RoHS Directive Compliant

This product is fully compliant with the directive 2100/65/EU Annex II (RoHS). It does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's or PBDE's.

### WEEE

This product is not a piece of electrical or electronic equipment, and it therefore not governed by Directive 2002/96/EC on waste electrical and electronic equipment (WEEE)

### Abbreviations:

Asp. Tox      Aspiration hazard

Carc.          Carcinogenicity

Exp.            Exposure

(Contd. on page 10)



**Micro to Nano**

Innovative Microscopy Supplies

Tappersweg 91  
2031ET Haarlem  
The Netherlands

T +31-85-2013155  
E [info@microtonano.com](mailto:info@microtonano.com)  
I [www.microtonano.com](http://www.microtonano.com)

---

# Safety Data Sheet

Regulation EC Nr. 1907/2006 Art.31

---

**Product name:** Solid silicon wafer or chips

**Date:** October 5th 2022

**Document Nr.:** SDS0011000845

**Version:** 4.0

Page **10** of **10**

---

(Contd. of page 9)

Flam.	Flammable
GHS	Global Harmonised System of Classification of Labelling Chemicals
Irrit.	Irritant
N/A	Not applicable
N/E	Not estimated
NOEC	No observed effect concentration
LC50	Lethal dose single exposure to causing 50% lethality
LD50	Lethal dose 50% corresponds to causing 50% lethality during a specific time
PBT	Persistent Bio-accumulative and Toxic
WEL	Workplace Exposure Limit
Repr.	Reproductive toxicant
RoHS	Restriction of Hazardous Substance
vPvB	very Persistent and very Bio-accumulative
WEEE	Waste Electrical and Electronic Equipment

This product should be stored, handled and used in accordance with good industrial hygiene practices and in accordance with any legal regulation.

The information contained herewith is based on the present state of our knowledge and is intended to describe the product from the point of view of safety requirements. It does not guarantee any specific properties.

It is the responsibility of the user to query and verify any information seeming suspect or where doubt on the validity may exist. The buyer assumes all responsibility of using and handling the product in accordance with local, state, federal and international regulations.

End of document



**Micro to Nano**

Innovative Microscopy Supplies

Tappersweg 91  
2031ET Haarlem  
The Netherlands

T +31-85-2013155  
E [info@microtonano.com](mailto:info@microtonano.com)  
I [www.microtonano.com](http://www.microtonano.com)