



**MATERION**

Product name: Silicon Product

# CHEMICAL PRODUCT SAFETY DATA SHEET

Prepared in accordance with GB/T 16483 and GB/T 17519.

Issue date: 05-14-2019

Version #: 01

SDS No: 45

## SECTION 1 Chemical product and company identification

Chinese name of chemical	硅产品		
English name of chemical	Silicon Product		
Manufacturer/Supplier	Materion Advanced Materials Group		
Address	42 Mt. Ebo Road South Brewster, NY 10509 United States		
Contact person	Not available.		
Telephone	1+845.279.0900		
e-mail	Not available.		
Emergency telephone number	Chemtrec	1+703.527.3887	
Issue date	05-14-2019		
SDS No	45		

## SECTION 2 Hazards identification

Emergency overview	Not available.		
Hazard categories			
Physical hazards	Flammable solids	Category 2	
Health hazards	Serious eye damage/eye irritation	Category 2B	
Environmental hazards	Not classified.		
Label elements			
Pictograms	None.		
Signal word	None.		
Hazard statement	None.		
Precautionary statement			
Prevention	None.		
Response	None.		
Storage	None.		
Disposal	None.		
Physical and chemical hazards	Not available.		
Health hazards	Not available.		
Environmental hazards	Not available.		
Supplemental information	None.		

## SECTION 3 Composition/information on ingredients

Substance/mixture	Substance		
Chemical name	Concentration (%)	CAS Number	
Silicon	100 - 100	7440-21-3	

## SECTION 4 First aid measures

Inhalation	Not available.
------------	----------------

---

<b>Skin contact</b>	Not available.
<b>Eye contact</b>	Not available.
<b>Ingestion</b>	Not available.
<b>Most important symptoms and health effects</b>	Not available.
<b>Personal protection for first-aid responders</b>	Not available.

## SECTION 5 Fire-fighting measures

<b>Extinguishing media</b>	Not available.
<b>Extinguishing media to avoid</b>	None.
<b>Specific hazards</b>	None.
<b>Special fire fighting procedures</b>	None.
<b>Protection of fire-fighters</b>	None.

## SECTION 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	Not available.
<b>For emergency responders</b>	Not available.
<b>Environmental precautions</b>	Not available.
<b>Clean-up methods and materials and containment measures</b>	Not available.
<b>Prevention of secondary hazards</b>	Not available.

## SECTION 7 Handling and storage

<b>Handling</b>	Not available.
<b>Storage</b>	Not available.

## SECTION 8 Exposure controls/personal protection

### Exposure limits

No exposure limits noted for ingredient(s).

<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Monitoring methods</b>	Not available.
<b>Engineering measures</b>	Not available.
<b>Personal protective equipment</b>	
<b>Respiratory protection</b>	Not available.
<b>Hand protection</b>	Not available.
<b>Eye protection</b>	Not available.
<b>Skin and body protection</b>	Not available.

## SECTION 9 Physical and chemical properties

### Appearance

<b>Physical state</b>	Solid.
<b>Form</b>	Not available.
<b>Color</b>	Not available.
<b>Odor</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	2570 °F (1410 °C)
<b>Boiling point, initial boiling point, and boiling range</b>	4271 °F (2355 °C)
<b>Flash point</b>	Not available.

---

---

Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	< 0.0000001 kPa (77 °F (25 °C))
Vapor density	Not available.
Relative density	Not available.
Density	2.33 g/cm <sup>3</sup> estimated at 25 °C
Solubility(ies)	
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Other data	
Molecular formula	Si
Molecular weight	28.09 g/mol
Specific gravity	2.33 at 25 °C
Surface tension	720 mN/m (2732 °F (1500 °C))

## SECTION 10 Stability and reactivity

Stability	Not available.
Possibility of hazardous reactions	Not available.
Conditions to avoid	None.
Incompatible materials	None.
Hazardous decomposition products	None.

## SECTION 11 Toxicological information

Acute toxicity	Not available.
Routes of exposure	Not available.
Skin corrosion/irritation	Not available.
Serious eye damage/eye irritation	Not available.
Respiratory or skin sensitization	
Respiratory sensitization	Not available.
Skin sensitizer	Not available.
Germ cell mutagenicity	Not available.
Carcinogenicity	Not available.
Toxic to reproduction	Not available.
Specific target organ toxicity following single exposure	Not available.
Specific target organ toxicity following repeated exposure	Not available.
Aspiration hazard	Not available.
Chronic effects	Not available.

## SECTION 12 Ecological information

Ecotoxicity	Not available.
Persistence and degradability	Not available.

---

<b>Bioaccumulation</b>	Not available.
<b>Mobility in soil</b>	Not available.
<b>Other hazardous effects</b>	Not available.

### SECTION 13 Disposal considerations

<b>Residual waste</b>	Not available.
<b>Contaminated packaging</b>	Not available.
<b>Local disposal regulations</b>	Not available.

### SECTION 14 Transport information

#### CNDG

<b>UN number</b>	UN1346
<b>UN proper shipping name</b>	SILICON POWDER, AMORPHOUS
<b>Transport hazard class(es)</b>	
<b>Class</b>	4.1
<b>Subsidiary risk</b>	-
<b>Packing group</b>	III
<b>Special precautions for user</b>	Not available.

#### IATA

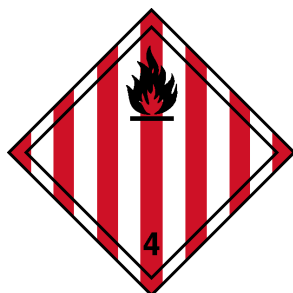
Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not available.

#### CNDG



### SECTION 15 Regulatory information

#### Law of the People's Republic of China on Prevention and Control of Occupational Diseases

Not regulated.

#### Regulations on the Control over Safety of Dangerous Chemicals

##### Catalog of Hazardous Chemicals

SILICON POWDER, AMORPHOUS (CAS 7440-21-3)

#### Provision on the Environmental Administration of New Chemical Substances

##### China Inventory of Existing Chemical Substances

Country(s) or region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)  
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### International regulations

##### Stockholm Convention

Not applicable.

##### Rotterdam Convention

Not applicable.

**Montreal Protocol**

Not applicable.

**Kyoto protocol**

Not applicable.

**Basel Convention**

Not applicable.

**SECTION 16 Other information**

**References**

Not available.

**Revision information**

Product and Company Identification: Product Review  
Composition / Information on Ingredients: Ingredients  
Transport Information: Material Transportation Information