

## SAFETY DATA SHEET

SDS NA-MC110

### Section 1 – Product and Supplier Identification

<b>Product identifier used on the label:</b>	<b>Silicon carbide products</b>
<b>Other means of identification:</b>	The hazard communication label on the product tells which SDS is associated with the product.
<b>Uses (and restrictions):</b>	Customer applications of silicon carbide products
<b>Supplier and contact information:</b>	
Morgan Advanced Materials 441 Hall Avenue St Marys, PA 15857 USA	+1(814) 781-1573 www.morgansealsandbearings.com
<b>Emergency phone number:</b>	+1(814) 781-1573 08:00-17:00 local time M-F

### Section 2 – Hazard Identification

Morgan Advanced Materials sells two types of mechanical carbon products:

- **Most products are finished parts that have been machined to a size and shape suitable to the customer's use.** Finished mechanical carbon parts are meant to be used without further machining by others and are not expected to release substances that present a health or safety hazard. Finished parts are “articles”, are not regulated by OSHA as a hazardous chemical, and a Safety Data Sheet and hazard communication labelling are not required.
- **Morgan also sells material blanks that are machined by the customer, releasing dust.** Refer to this Safety Data Sheet for information about dust released from this product by cutting and machining or otherwise released through shipping, handling or use. This material is not classified as hazardous under the Globally Harmonized System of Classification and Labelling and the US OSHA Hazard Communication Standard.

**Classification:**

This material is not classified as hazardous under the Globally Harmonized System of Classification and Labelling and the US OSHA Hazard Communication Standard.

**Signal word, symbols, hazard and precautionary statements:**

Not applicable (because not classified as hazardous)

**Other information about health hazards:**

Dust from this material may cause minor irritation of skin and eyes, primarily through mechanical abrasion. Repeated or prolonged exposure to elevated concentrations of any airborne dust can irritate or harm the respiratory system, especially as an aggravation to a pre-existing condition. Avoid creating and breathing airborne dust. The materials in this product are not absorbed through the skin.

**Other information about physical hazards:**

Dust from this product may be electrically conductive and, if so, dust accumulations on electrical equipment can cause short circuits. Maintain good housekeeping.

**Section 3 – Composition**

Component	CAS Registry Number	Concentration % by weight
Silicon Carbide	409-21-2	70-100%

This material may also contain:		
Graphite	7782-42-5	0-10%
Carbon	7440-44-0	0-10%
Silicon	7440-21-3	0-10%

## Section 4 – First Aid Measures

<b>Inhalation:</b>	Remove affected personnel to an exposure-free environment.
<b>Skin and eye contact:</b>	Flush eyes with water. Wash skin with soap and water.
<b>Ingestion:</b>	Not applicable, not expected
<b>Indication of need for immediate medical attention and special treatment:</b>	Not applicable, not expected

## Section 5 – Fire Fighting Measures

This product, and dust produced when machining this product, are not very combustible but may burn if exposed to high temperatures.

### **Suitable extinguishing media:**

Use an extinguisher that is suitable for the surrounding fire.

### **Combustion hazards:**

When burned, carbon/graphite releases carbon dioxide (and possibly carbon monoxide if there is not enough oxygen for complete combustion).

### **Special fire-fighting procedures:**

Use protective clothing and breathing equipment appropriate to the surrounding fire.

### **Unusual fire and explosion hazards:**

As is the case with any combustible dust, concentrations of airborne carbon/graphite dust can present a dust explosion hazard. Practice good housekeeping to prevent dust accumulations and prevent situations where substantial amounts of dust can become airborne. Do not blow dust toward an ignition source.

**Flash point:** Not applicable

**Flammable limits:** Not applicable

## Section 6 – Accidental Release Measures

Sweep or vacuum spilled material and place into sealable containers. Avoid creating and breathing airborne dust. Dispose in accordance with applicable waste disposal regulations.

## Section 7 – Handling and Storage

Use appropriate dust collection and controls if this product is cut or machined. Practice good housekeeping to avoid the accumulation of dust in the workplace. Avoid creating and breathing airborne dust. Practice good personal hygiene. As a good practice, wash hands before eating, drinking or smoking and do not store food, or eat or drink, in areas where chemicals are handled.

## Section 8 – Exposure Controls and Personal Protection

### Exposure limits and guidelines:

Material	OSHA PEL 8-Hr TWA	ACGIH TLV 8-Hr TWA
Silicon Carbide	15 mg/m <sup>3</sup> (total) 5 mg/m <sup>3</sup> (respirable)	10 mg/m <sup>3</sup> (total) 3 mg/m <sup>3</sup> (respirable)
Graphite*	15 mg/m <sup>3</sup> (total) 5 mg/m <sup>3</sup> (respirable)	2.0 mg/m <sup>3</sup> (respirable)
Carbon	15 mg/m <sup>3</sup> (total) 5 mg/m <sup>3</sup> (respirable)	10 mg/m <sup>3</sup> (total) 3 mg/m <sup>3</sup> (respirable)
Silicon	15 mg/m <sup>3</sup> (total) 5 mg/m <sup>3</sup> (respirable)	None Established

\*The PEL indicated here (the PEL for inert or nuisance dust) is for synthetic graphite.

Other jurisdictions may have different exposure limits and control guidelines. Users are advised to consult and comply with local regulations.

### Engineering controls:

Use appropriate dust collection and controls if this product is cut or machined.  
Practice good housekeeping.

### Personal protective equipment:

Use NIOSH-approved respiratory protective equipment (for example, an N-95 dust mask) if exposures exceed established limits.

### General hygiene considerations:

As a good practice, wash hands before eating, drinking or smoking and do not store food, or eat or drink, in areas where chemicals are handled.

## Section 9 – Physical and Chemical Properties

<b>Appearance:</b>	Solid, varying colors	<b>Odor:</b>	No odor
<b>Odor threshold:</b>	Not applicable	<b>pH:</b>	Not applicable
<b>Melting point:</b>	Not applicable	<b>Boiling point:</b>	Not applicable
<b>Flash point:</b>	Not applicable	<b>Evaporation rate:</b>	Not applicable
<b>Flammability:</b>	Not applicable	<b>LEL/UEL:</b>	Not applicable
<b>Vapor pressure:</b>	Not applicable	<b>Vapor density:</b>	Not applicable
<b>Relative density:</b>	Not applicable	<b>Water solubility:</b>	Insoluble
<b>Partition coefficient (n-octanol/water):</b>	Not applicable	<b>Autoignition temperature</b>	Not applicable
<b>Decomposition temperature:</b>	Not applicable	<b>Viscosity:</b>	Not applicable

## Section 10 – Stability and Reactivity

This material is stable and non-reactive.

## Section 11 – Toxicological Information

None of the materials in this product are listed as a carcinogen by the International Agency for Research on Cancer (IARC), US OSHA or the US Department of Health and Human Services National Toxicology Program (NTP).

Additional toxicological information is available through the U.S. National Institute for Occupational Safety and Health (NIOSH) Registry of Toxic Effects of Chemical Substances (RTECS). See website: [www.cdc.gov/niosh/ipcsneng/nengrtec.html](http://www.cdc.gov/niosh/ipcsneng/nengrtec.html).

Silicon Carbide RTECS # VW045000  
Graphite RTECS # MD9659600  
Carbon RTECS # FF5250100  
Silicon RTECS # VW0400000

## Section 12 – Ecological Information

Silicon carbide, carbon, graphite and silicon are relatively inert and would be expected to be of negligible consequence in the environment.

## Section 13 – Disposal Considerations

This product does not contain substances that could cause it to be hazardous waste, if disposed. Dispose in accordance with applicable waste disposal regulations.

## Section 14 – Transport Information

This product is not regulated as a hazardous material for transportation purposes by any known authority, including transportation by truck, sea or air.

## Section 15 – Regulatory Information

All materials in this product are listed on the US EPA Toxic Substances Control Act (TSCA) inventory.

## Section 16 – Other Information

### HMIS Ratings

(for dust produced by cutting and machining)

<b>Health</b>	<b>1*</b>
<b>Flammability</b>	<b>1</b>
<b>Physical Hazard</b>	<b>0</b>

\* indicates possible chronic health effects from continuing exposures

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