

# Bay Carbon, Inc.

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## Safety Data Sheet

Updated: 09/24/15

### SECTION 1

MANUFACTURER'S NAME AND CONTACT INFORMATION

(See above)

### SECTION 2 - Product and Supplier Identification

**Product identifier**

**Specialty Carbon/Graphite Products**

**Used on label:**

**Other means of identification:**

See list of products/grades in Section 16

**Uses (and restrictions):**

Customer applications of carbon/graphite

- Specialty carbon/graphite materials meant to be machined by the Bay Carbon Inc.
- Specialty carbon/graphite products in shapes designed for customer applications

## SECTION 3 - Hazard Identification

As a solid material, this product presents minimal hazards; however, dust created in shipping, handling, cutting, machining, and use exhibit the hazards of the materials as described below. Avoid creating and breathing airborne dust.

### **Classification:**

The materials contained in this product are not classified as hazardous under Globally Harmonized System of Classification and Labeling 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.

### **Other information about physical hazards:**

Carbon/graphite dust is electrically conductive and dust accumulations on electrical equipment can cause short circuits resulting in electrical shock, fire or damage to equipment. Dust from this product contains graphite and may create slippery conditions. Accumulations of dust may present a combustible dust hazard. Maintain good housekeeping.

**SECTION 4 – Composition**

<b>Component</b>	<b>CAS Registry Number</b>	<b>Concentration % by weight</b>
Graphite	7782-42-5	0-100%
Carbon	7440-44-0	0-100%

**SECTION 5 – First Aid Measures**

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

**SECTION 6 – Fire Fighting Measures**

This product is 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 release carbon dioxide (and possible 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, concentration of airborne carbon/graphite dust can present a dust explosion hazard. Practice good housekeeping to prevent dust accumulation and prevent situations where substantial amounts of dust can become airborne.

**Flash point:** Not applicable

**Flammable limits:** Not applicable

**SECTION 7 – 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 8 – Handling and Storage**

Practice good housekeeping to avoid the accumulation of dust in the workplace. Avoid creating and breathing airborne dust. Practice good hygiene. As 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 – Exposure Controls and Personal Protection

### Exposure limits and guidelines:

Material	OSHA PEL 8-Hr TWA	ACGIH TLV 8-Hr TWA
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)

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

### Engineering controls:

Use good housekeeping practices. Use general or local exhaust ventilation, if necessary, to reduce concentrations of airborne contaminants.

### 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 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 10 – Physical and Chemical Properties**

<b>Appearance:</b>	Black solid	<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:</b>	Very high
<b>Decomposition Temperature:</b>	Not applicable	<b>Viscosity:</b>	Not applicable

**SECTION 11 – Stability and Reactivity**

This material is stable and non-reactive.

## **SECTION 12 – Toxicology 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 toxicology 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:

<http://www.cdc.gov/niosh/ipcsneng/nengrtec.html>.

Graphite RTECS # MD9659600

Graphite RTECS # FF5250100

## **SECTION 13 – Ecological Information**

Carbon/graphite is relatively inert and would be expected to be negligible consequences in the environment.

## **SECTION 14 – Disposal Considerations**

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

## **SECTION 15 – Transport Information**

This product is not regulated as a hazardous material for transportation purposes by any known authority.

## SECTION 16 – Regulatory Information

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

## SECTION 17 – Other Information

### HMIS Ratings

Health	1*
Flammability	1
Physical Hazard	0

\* indicates possible chronic health effects from continuing exposures

**National <sup>®</sup> product grades associated with this SDS:**

C196, EDEM-X, FTG, HSC, HSCG, M-100, M-300, M-303, M305, M-320, M-403, M-420, M-425, M-555, MCF, NE-100, NE-200, NE-500, NE-800, PC-25, PG-45, PG-60, PG-70, TS2056, TS2072.

This SDS may also apply to others grades. Refer to the label on the product. The Label will refer you to the SDS associated with that product.

**This document was originally issued at revision 0. It has been revised as follows:**

Date	Revision Details	Revision Level
9/24/2015	Update MSDS to SDS	1
9/24/2015	Update Content	2



