

*Linyi Mengshan Electrical Carbon Products CO.,LTD*  
*Graphite and Graphite Products supplies*  
*Baishabu town, Lanshan District, Linyi city Shandong 276000 China*  
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## Material Safety Data Sheet

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### Section 1: Identification

Date Effective..... Mar 08, 2017  
Chemical family..... Graphite/Carbon  
Product Name..... Gouging Carbon

#### Emergencies Contacting:

24 Hour Emergency Use Only #'s.....  
Worldwide phone: +86-539-8652762  
Worldwide FAX: +86-539-8652763

#### Emergency Overview:

Contains no ingredients now known to be hazardous. The normal cutting of the blocks, is suspected of generating small amounts of possibly respirable dust. We believe that such mechanical cutting should be done in a ventilated hood facility. The normal stripping of the individual layers is not thought to generate such particulates.

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### Section 2 Composition

Name	CAS #	Approximate Weight %
Graphite	7782-42-5	>99.99%

No hazardous components as defined by OSHA.

**313 Listed Chemicals:** If none are listed here, there are no 313 chemicals present above threshold values.

**NFPA (Scale 0-4):** Not known

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### Section 3: Hazard Identification

Potential Health Effects:

Eye: Dust may cause eye irritation  
Skin Contact: Dust may cause skin irritation.  
Skin Absorption: Not expected to be a major route of entry.  
Ingestion: Not known  
Inhalation: Small graphite dust is suspected as being possible inhalation hazards.  
Chronic effects: A review of the literature does not show obvious long term hazard.  
Carcinogenicity: No component known to be present in this product and is at > 0.1% is presently listed as a carcinogen by IARC or OSHA unless otherwise noted.

#### Routes of exposure:

Inhalation of the dust, but which is not created during the normal use of this product unless it is being cut into smaller

pieces.

**Permissible exposure:**

15 MCCPF OSHA TWA, 10 mg/m<sup>3</sup> ACGIH TWA (Total Dust)

**CIRCLA Hazard Ratings:**

Toxicity: 1    Ignitability: 0    Reactivity: 0    Persistence: 3

**Toxicological Information:**

Graphite dust causes benign pneumoconiosis (graphitosis). Symptoms of pneumoconiosis from graphite dust exposure are dyspnea, coughing, black sputum, bronchitis, ventricular hypertrophy and impairment of pulmonary function. X-rays will show progressive nodulation of the lungs. The threshold limit value was set in conformity with the limit for free crystalline silica, which may be present in graphite.

**Incompatibilities:**

Strong oxidizers, fluorine, peroxides

**Route of entry:** Inhalation of the dust, Skin or eye contact.

Target organs: Lungs, Cardiovascular system.

**Symptoms:**

Coughing, forceful expiration. Dyspnea, difficulty in breathing. Black sputum, black colored expectorate. Bronchitis, inflamed bronchial mucous membranes, pulmonary fibrosis, fibrous tissue involving lungs. Pneumoconiosis, degenerative respiratory disease. We do not believe this to be very likely with the normal use of the product for the intended applications in microscopy.

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**Section 4: First Aid Measures**

**Eyes:** In case of contact, immediately flush eyes with copious amounts of flowing water for at least 15 minutes, retracting eye lids often. Get medical attention immediately. Contact lenses should not be worn when working with this product.

**Skin:** Wash skin thoroughly with mild soap and water. Flush with luke warm water for 15 minutes.

**Inhalation:** If large amounts of the dust are inhaled, move the exposed person to fresh air at once. If symptoms persist contact physician.

**Ingestion:** Not known

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**Section 5: Fire Fighting Measures**

**Flammability classification:** Not classified.

**Flash Point/Method:** Not known, but *very high!*

**Auto-Ignition Temperature:** Not determined

**Flammable Limits:** Lower: Not applicable

Upper: Not applicable

**Extinguishing Media:** Non-burning

**Special Conditions to Avoid:** None known

**Hazardous products of Combustion:** None known

**Unusual Fire Hazards:** None known

**Firefighting procedures/instructions:** Treat the surrounding fire; this product is non-burning.

**Properties that could increase fire or explosion hazard:** None known.

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## **Section 6: Accidental Release Measures**

This product is not subject to "accidental release" in the form of normal use. However, if the powder or dust should be released, wear protective clothing, and wet the released fibers with any oil based material (e.g. vegetable oil) to keep them from becoming airborne, and then collect and store and dispose of properly.

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## **Section 7: Handling and Storage**

**Storage and handling:** Store in the plastic bags in which the product is shipped, tightly sealed.

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## **Section 8: Exposure Controls and Personal Protection**

### **Personal Protective Equipment (PPE):**

**Eye/Face Protection:** ANSI 87.1 approved safety glasses with side shield when cutting the blocks.

**Skin Protection:** No particular protection needed when handling this material on an occasional basis. For cutting large numbers of pieces into smaller pieces, we suggest the wearing of some protective gloves (e.g. latex) to minimize the exposure of the skin to the dust generated during the cutting.

**Respiratory Protection:** For the occasional cutting of a block, special protection is not needed, provided it is done in a chemical fume hood with exhaust.

**Other:** None known

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## **Section 9: Physical and Chemical Properties**

Appearance: cylinder

pH: Not applicable

Odor: None

Vapor Pressure: Not applicable

Vapor Density (Air=1): Not available

Boiling Point/Range: >3000 °C

Melting Point/Range: Not available

Specific Gravity: 2 to 2.5 g/cc

Solubility in water: None

Softening Point: Not determined

Molecular Formula: Not known

Molecular Weight: 12.01

%Volatile by Volume: Not determined

Evaporation Rate (n-butyl acetate = 1): Not available

Viscosity: Not available

Bulk Density: Not determined

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## Section 10: Stability and Reactivity

**Chemical Stability:** The product is stable under normal use conditions.

**Reactivity:** This material is not reactive.

**Conditions to Avoid:** Heat, sparks, flames, and other ignition sources; avoid heating above 290 °C (554 F)

**Incompatibility (materials to avoid):** Strong oxidizers, fluorine, peroxides

**Hazardous Products of Decomposition:** None known

**Reactions with Air and Water:** None known

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## Section 11: Toxicological Information

**Eye Effects:** May cause eye irritation.

**Skin Effects, Contact:** Concentrate may cause skin irritation

**Skin Effects, Absorption:** No absorption or acute effects expected. However the dust might cause some mild irritation of the skin.

**Acute Oral Effects (Ingestion):** None known

**Acute Inhalation Effects:** None known.

**Chronic Effects:** A review of the literature does not show obvious long term hazard.

**Carcinogenicity:** No component known to be present in this product at > 0.1% is presently listed as a carcinogen by IARC, NTP, or OSHA unless otherwise noted in Section 16.

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## Section 12: Ecological Information

**Exotoxicity:** No ecological information is available for this product.

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## Section 13: Disposal Considerations

**US EPA Hazardous Waste Numbers:** This product as purchased does not fall under current US EPA (Environmental Protection Agency) RCRA definitions of hazardous waste. Under RCRA it is the generator's responsibility to determine the status of the waste at the time of its disposal.

**General Disposal Considerations:** All recovered material should be packaged, transported and disposed of (or reclaimed) using good engineering practices. Disposal method must be in compliance with local, state, and federal regulations regarding health, air and water pollution.

**CERCLA Reportable Quantity:** This product does not contain any CERCLA regulated materials.

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## Section 14: Transport Information

**Proper Shipping Name:** Not Regulated

**DOT Hazard Class:** Non-Regulated

**UN/NA ID:** Not Regulated

**Packing Group:** Not Applicable

**Labels:** Not Regulated

**Marine Pollutant:** No information

**DOT Status:** Not Regulated

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## **Section 15: Regulatory Information**

All components of this product are listed on the Toxic Substance Control Act (TSCA) Section 8(b) Chemical Inventory. This product is not a HAZMAT as defined by the OSHA Hazard Communications Standard (29 CFR 1910.1200). This product is not a "controlled product" as defined by the Canadian Workplace Hazardous Materials Information System (WHMIS).

**SARA Section 302 Extremely Hazardous Substances:** Not listed anywhere.

SARA 311/312

Acute: No

Chronic: No

Fire: No

Reactivity: No

Sudden release of pressure: No

**SARA Section 313 Toxic Chemicals:** No "313 chemicals" contained in this product.

**California Prop. 65:** Proposition 65 requires manufacturers or distributors of consumer products into the State of California to provide a warning statement if the product contains ingredients for which the State has found to cause cancer, birth defects or other reproductive harm. If this product contains an ingredient listed by the State of California to cause cancer or reproductive toxicity, it will be listed below:

No ingredients, present at concentrations > 0.1%, have been found that are presently listed as a carcinogen by IARC, NTP, or OSHA.

All components of this product are listed on the Canadian Environmental Protection Act (CEPA) provisional domestic substances list (DSL).

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## **Section 16: Other Information**

### **Disclaimer of Liability:**

Caution! Do not use BCL Supplies products or materials in applications involving implantation within the body; direct or indirect contact with the blood pathway; contact with bone, tissue, tissue fluid, or blood; or prolonged contact with mucous membranes. Products offered by BCL Supplies are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. BCL Supplies will not provide to customers making devices for such applications any notice, certification, or information necessary for such medical device use required. BCL Supplies and Structure Probe, Inc. make no representation, promise, express warranty or implied warranty concerning the suitability of these materials for use in implantation in the human body or in contact with internal body tissues of fluids.