

# MATERIAL SAFETY DATA SHEET

## MSDS NO. 102

### SECTION I - IDENTIFICATION

**Helwig Carbon Products, Inc.**

**Telephone:** (414) 354-2411

**Fax:** (414) 354-2421

8900 West Tower Ave  
Milwaukee WI 53224

**Product Name:** Carbon/Natural Graphite

**Chemical Name:**

Hazard Rating		Health	0
Least 0	Slight 1		
Moderate 2	High 3	Fire	0
Extreme 4			
		Reactivity	0

### SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT	C.A.S. NO.
Carbon	Up to 95	7440-44-0
Natural Graphite*	Up to 80	7782-42-5
Sulfur	Up to 5	7704-34-9

\*Natural graphite is the significant component of this mixture for hazard assessment in this document. The sulfur is bound in the carbon structures. There is not a specific PEL or ILV for sulfur; however, the nuisance dust standards are appropriate.

### SECTION III - OCCUPATIONAL EXPOSURE LIMITS

**OSHA PEL:** 15 mg/m<sub>3</sub> as total nuisance particulate; 5 mg/m<sub>3</sub> as respirable fraction

**ACGIH TLV:** 10 mg/m<sub>3</sub> as total nuisance particulate; 2 mg/m<sub>3</sub> as respirable fraction

**NIOSH:** None

**CARCINOGEN:** NTP No IARC NO OSHA NO

### SECTION IV - HEALTH HAZARDS

**Effects of exposure:**

Prolonged and repeated overexposure to dust may lead to pneumoconiosis. Dust particles may cause mechanical irritation to the eyes and skin. Individuals with pre-existing chronic respiratory impairment or with serum antitrypsin deficiency may be at increased risk for pneumoconiosis.

**SECTION V - EMPLOYEE PROTECTION**

**Respiratory Protection:** Use approved dust respirator if exposure exceeds PEL limits

**Eye Protection:** Safety glasses with side shields if airborne particles are produced

**Protective Gloves:** Not required

**Other Protective Equipment:** Not required

**Ventilation:** Local ventilation recommended if dust level exceeds PEL Limit

**SECTION VI - FIRST AID**

**Skin Contact:** Wash affected area with soap and water especially before eating, smoking and at the end of work shift.

**Eye Contact:** Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, call a physician.

**Inhalation:** Remove to fresh air. If breathing has stopped, administer artificial respiration and supply oxygen. Seek medical attention.

**Ingestion:** N/A

**SECTION VII – FIRE AND EXPLOSION DATA**

**Flash Point** None

**Flammable Limits:** N/A LEL UEL

**Extinguishing Media:** Water, CO<sub>2</sub>, Dry chemical, foam

**Special Fire Fighting Procedures:** Use self-contained breathing apparatus

**Unusual Fire and Explosion Hazards:** None

**SECTION VIII - SPECIAL PRECAUTIONS**

**Precautions for Handling and Storing:** None

**Other Precautions:**

Carbon is electrically conductive. Carbon dust accumulation may cause electrical short circuits or other malfunctions

**SECTION IX - ENVIRONMENTAL PROTECTION**

**Spill or Leak Procedures:**

Normal housekeeping practices. Sweep, shovel or vacuum to clean up.

**Waste Disposal Method:**

Dispose of according to local, state and federal regulations

**SECTION X - PHYSICAL DATA**

<b>Boiling Point:</b> N/A	<b>Vapor Pressure:</b> N/A	<b>Spec. Gravity:</b> Approx 2
<b>Melting Point:</b> N/A		
<b>Vapor Density:</b> N/A	<b>Evaporation Rate:</b> N/A	<b>Solubility in Water:</b> Not Soluble
<b>Percent Volatile by Weight:</b> N/A	<b>Appearance:</b> Gray-Black Solid	<b>Odor:</b> None

**SECTION XI - REACTIVITY DATA**

<input type="checkbox"/> <b>Unstable</b> <input checked="" type="checkbox"/> <b>Stable</b>	<b>Hazardous Polymerization</b> <input type="checkbox"/> <b>May Occur</b> <input checked="" type="checkbox"/> <b>Will not occur</b>
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**Conditions and Materials to Avoid:**

None

**Hazardous Decomposition Products:**

None if handled in accordance with description

**SECTION XII - REFERENCES**

<b>OSHA:</b>	29 CFR 1910.11000
<b>ACGIH:</b>	Documentation of Threshold Limit Values
<b>MSDS:</b>	SGL MSDS 102

DATE: 1/10/05  
Replaces (6/1/89)