

MATERIAL SAFETY DATA SHEET

MSDS NO. 101

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SECTION I - IDENTIFICATION

Helwig Carbon Products, Inc. 8900 West Tower Ave Milwaukee WI 53224 Product Name: Carbon/Graphite Grades Chemical Name: Carbon	Telephone: (414) 354-2411 Fax: (414) 354-2421	Hazard Rating System (0=Minimal – 4=Extreme)		
			HEALTH	0
			FIRE	0
			Reactivity	0

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT	C.A.S. NO.
Graphite	>99	7782-42-5
This product is not known to be hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.		

SECTION III - OCCUPATIONAL EXPOSURE LIMITS

OSHA PEL:	15 mg/m ³ as total nuisance particulate; 5 mg/m ³ as respirable fraction		
ACGIH TLV:	10 mg/m ³ as total nuisance particulate; 2 mg/m ³ as respirable fraction		
NIOSH:	None		
CARCINOGEN:	NTP <u>No</u>	IARC <u>No</u>	OSHA <u>No</u>

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 of pneumoconiosis.

SECTION V - EMPLOYEE PROTECTION

Respiratory Protection:	NIOSH approved respirator for dust when overexposure exists.
Eye Protection:	Safety glasses with side shields
Protective Gloves:	None
Other Protective Equipment:	None
Ventilation:	Point of operation

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	Does not flash.		
Flammable Limits:	N/A	LEL _____	UEL _____
Extinguishing Media:	Water, carbon dioxide, 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

Boiling Point (°F)	N/A	Vapor Pressure (mm Hg)	N/A	Spec. Gravity (H ₂ O = 1)	N/A
Vapor Density (Air = 1)	N/A	Evaporation Rate (_____ = 1)	N/A	Solubility in Water soluble	Not
Percent Volatile by Volume	N/A	Appearance Dark gray to black solid		Density Approx	1.8 g/cm ³

SECTION XI - REACTIVITY DATA



Unstable



Stable

**Hazardous
Polymerization**


May Occur



Will not occur

Conditions and Materials to Avoid:

None

Hazardous Decomposition Products:

None if handled in accordance with description.

SECTION XII - REFERENCES

OSHA:	29 CFR 1910.1000, Table Z-1-A
ACGIH:	Documentation of Threshold Limit Values - Current Edition
SAX:	Dangerous Properties of Industrial Materials - Current Edition
MSDS:	SGL MSDS 101

Date: 1/4/05
(Replaces 6/01/89)