

MATERIAL SAFETY DATA SHEET

MSDS NO. 119

SECTION I - IDENTIFICATION

Helwig Carbon Products, Inc. Telephone: (414) 354-2421 Fax: (414) 3542421 8900 West Tower Ave Milwaukee WI 53224 Product Name: Carbon/Graphite with Cured Resin Chemical Name: Mixture	Hazard Rating System (0=Minimal – 4=Extreme)		
		HEALTH	1
		FIRE	0
		REACTIVITY Y	0

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT	C.A.S. NO.
Cured Resin*	5-15%	None
<p>No specific exposure standards are established for the cured resin. Generally, the dust PEL for graphite represents the critical component of this mixture, unless the resin is subjected to thermal or chemical decomposition.</p>		

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:
 Primary Route(s) of Entry: Inhalation of dust
 Effects of Overexposure:
 Eyes: At high dust level, mechanical irritation
 Breathing: Long-term over-exposure to graphite dust may lead to benign pneumoconiosis.
 Swallowing or Skin: None

Medical Conditions Recognized as Possibly Aggravated by Exposure:
 Individuals with pre-existing chronic respiratory impairments or with serum antitrypsin deficiency may be at

SECTION V - EMPLOYEE PROTECTION

Respiratory Protection:	Use approved dust respirator if exposure exceeds PEL limits or if the material is heated to decomposition.
Eye Protection:	Recommended if airborne particles are produced.
Protective Gloves:	None required
Other Protective Equipment:	None required
Ventilation:	Local ventilation recommended if dust level exceeds the Permissible Exposure Limit (PEL) or if the material is heated to decomposition.

SECTION VI - FIRST AID

Skin Contact:	None necessary.
Eye Contact:	Flush eyes with plenty of water if irritation occurs. If irritation persists, call a physician.
Inhalation:	None necessary.
Ingestion:	None necessary.

SECTION VII - FIRE AND EXPLOSION DATA

Flash Point	None		
Flammable Limits:	N/A	LEL _____	UEL _____
Extinguishing Media:	Water, carbon dioxide, dry chemical, sand		
Special Fire Fighting Procedures:	Use self-contained breathing apparatus, as normal.		
Unusual Fire and Explosion Hazards:	Dust from this mixture is normally not explosive, but it may weakly contribute if the event is initiated by another explosive dust or gas. Graphite resin dust is electrically conductive; dust accumulations may cause electrical short circuits or other electrical malfunctions.		

SECTION VIII - SPECIAL PRECAUTIONS

Precautions for Handling and Storing:	None
Other Precautions:	If the resin is subjected to thermal or chemical decomposition, a variety of toxic gases and vapors could be released.

SECTION IX - ENVIRONMENTAL PROTECTION

Spill or Leak Procedures:

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

Waste Disposal Method:

Bury in an approved landfill. Dispose of according to local, state, and federal regulations.

SECTION X - PHYSICAL DATA

Boiling Point: Resin decomposes	Vapor Pressure (mm Hg) Negligible at room temperature	Spec. Gravity (H₂O = 1) Approx 1.8 – 2.2, mixture
Melting Point: None, mixture		
Vapor Density (Air = 1) Negligible at room temperature	Evaporation Rate (_____ = 1) 0	Solubility in Water Insoluble
Percent Volatile by Volume <0.1% mixture	Appearance Gray to black solid	Odor None

SECTION XI - REACTIVITY DATA

 Unstable

 Stable

 Hazardous Polymerization

 May Occur

 Will not occur

Conditions and Materials to Avoid:

Strong oxidizing agents.

Hazardous Decomposition Products:

Thermal or chemical decomposition of the resin may release toxic gases or fumes. In normal combustion, the product may also release carbon monoxide and carbon dioxide.

SECTION XII - REFERENCES

OSHA:	29 CFR 1910.1000
NIOSH:	Occupational Health Guidelines
ACGIH:	Documentation of Threshold Limit Values - Current Edition
AIHA:	Hygienic Guides
ANON:	Resin Manufacturer's Material Safety Data Sheet
MSDS:	SGL MSDS 119

DATE: 1/4/05
(Replaces 6/1/89)