MATERIAL SAFETY DATA SHEET

SGL CARBON GROUP

MSDS NO. 119

SECTION I - IDENTIFICATION

SGL CARBON, LLC

8600 Bill Ficklen Drive
Charlotte, NC 28269

Product Name: Carbon/Graphite with Cured Resin
Chemical Name: Mixture

Telephone: SGL Carbon: (704) 593-5100
CHEMTREC: (800) 424-9300

Hazard Rating System (0=Minimal – 4=Extreme)		
	HEALTH	1
	FIRE	0
	REACTIVITY	0

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT	C.A.S. NO.
Cured Resin*	5-15%	None

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.

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 No IARC No OSHA No

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 increased risk

of pneumoconiosis.

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 **Melting Point:** None, mixture	**Vapor Pressure (mm Hg)** Negligible at room temperature	**Spec. Gravity (H_2O = 1)** 1.8 – 2.2, 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:	Number 119, The Carbon/Graphite Group., 4/1/93

Prepared by: Corporate Safety

DATE: 11/26/02
(Replaces 10/1/95

Version)