



**MATERIAL SAFETY DATA SHEET**  
**Issued 1/8/15**

**Carlisle CBF Carbon/Carbon Composites**  
**Grades LL, LD, HL and HD**

**IDENTIFICATION: Carbon fibers in a Carbon matrix**

Ingredients	TSCA Status	% by Wt.	OSHA PEL
Carbon matrix	7440-44-0	40 - 70	10 ppm respirable dust
Graphite	7782-42-5	0 - 25	2.5 ppm respirable dust
Carbon fiber	7440-44-0	20 - 40	10 mg/m <sup>3</sup> respirable dust
Sulfur	7704-34-9	Less than 0.1	

**Note:** Sulfur is liberated as a vapor when the carbon is heated in vacuo or in an inert atmosphere >1600C (Grades LL and LD only)

**PHYSICAL DATA**

Boiling Point	>4000C	Appearance	Black solid
Vapor Pressure	N/A	Specific Gravity	1.50 – 1.85
Vapor Density	N/A	% Volatiles	Zero
Solubility in Water	Zero	Evaporation Rate	N/A

**FIRE & EXPLOSION HAZARD DATA:** Fine carbon dust generated by grinding operations is potentially explosive.

**HEALTH HAZARD DATA**

Threshold Limit Value (ACGIH)	TWA 2.5 mg/m <sup>3</sup> for respirable dust
Effects of Short-term Overexposure	Irritation of eyes & skin
Carcinogen Status (ACGIH)	None
Emergency & First Aid Procedures	Remove victim from dusty environment to fresh air.



**MSDS: Carlisle CBF Carbon/Carbon Composites  
Grades LL, LD, HL and HD**

**REACTIVITY DATA**

Stability	Chemically stable
Conditions to Avoid	Store at room temperature or below.
Incompatibility (Materials to Avoid)	None
Hazardous Decomposition Products	Sulfur vapors above 1600C
Hazardous Polymerization	Will not occur.

**SPILL OR LEAK PROCEDURES**

In Case of Spill	N/A
Waste Disposal	N/A

**SPECIAL PROTECTION INFORMATION**

Respiratory Protection	Use an OSHA-approved respirator when grinding material.
Ventilation	Local exhaust preferred. Area mechanical exhaust recommended.
Protective Equipment	Rubber or vinyl gloves. Protective skin cream. Safety goggles.

**SPECIAL PRECAUTIONS:** Store in a cool, dry area with good ventilation.

**HMIS RATING:** HEALTH ..... 0  
 FLAMMABILITY ..... 0  
 REACTIVITY ..... 0  
 PERSONAL PROTECTION ..... E

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