

## Graphtek LLC – Carbon Fiber Composites

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<b>Address:</b>	160-A Lexington Drive Buffalo Grove, IL 60089 USA
<b>Emergency Phone Number:</b>	847-279-1925
<b>Emergency E-mail:</b>	<a href="mailto:materials@graphtekllc.com">materials@graphtekllc.com</a>
<b>Product:</b>	Carbon Fiber Composite, CFC, Carbon/Carbon, Graphite Foil Laminate, Carbon/Graphite Felt Insulation, Rigidized Carbon Felt Insulation

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### (1) Identification

<b>Chemical Family</b>	Carbon/Synthetic Graphite
<b>D.O.T. Hazard Classification</b>	Inert

### (2) Ingredients (Inert and Hazardous)

<b>Ingredients / Composition</b>	Carbon and Synthetic Graphite 99.9%+ C.A.S. 7440-44-0, OSHA PEL: 15 mg/m <sup>2</sup> ACGIH TLV: 10 mg/m <sup>2</sup> C.A.S. 7782-42-5
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### (3) Physical Data

<b>Boiling Point</b>	None
<b>Melting Point</b>	None
<b>Evaporation Rate</b>	None
<b>Solubility in Water</b>	Negligible
<b>Appearance</b>	Gray solid laminate, gray-black fibrous felt, negligible odor
<b>Volatile by Weight</b>	Negligible @ RT
<b>Specific Gravity</b>	0.13-0.25
<b>Vapor Pressure</b>	N/A
<b>Vapor Density</b>	N/A
<b>Odor</b>	Negligible odor

### (4) Fire and Explosion Data

<b>Flash Point</b>	N/A
<b>Lower / Upper Explosive Limit</b>	N/A
<b>Extinguishing Media</b>	Water, CO <sub>2</sub> , Sand
<b>Extinguishing Media to Avoid</b>	N/A
<b>Hazardous Decomposition Products</b>	None
<b>Special Fire Fighting Procedures</b>	N/A, Difficult to ignite
<b>Unusual Fire and Explosion Data</b>	Graphite and carbon dusts are normally not explosive, but these may weakly contribute if another explosive dust or gas initiates the event. Graphite and carbon dusts are electrically conductive; dust accumulations may cause electrical short circuits or other electrical malfunctions.

### (5) Health Hazard Data

<b>Permissible Exposure Limit (PEL)</b>	See Section 2
<b>Primary Routes of Entry</b>	Inhalation of dust.
<b>Effects of Overexposure</b>	
<b>Eyes</b>	At high dust level, mechanical irritation.
<b>Breathing</b>	Prolonged and repeated overexposure may lead to benign

	pneumoconiosis.
<b>Swallowing or Skin</b>	No effect
<b>First Aid</b>	
<b>Eyes</b>	Flush with water if irritation occurs and obtain medical assistance.
<b>If on Skin, Breathed, or Swallowed</b>	Wash with soap and water
<b>Medical Conditions Recognized As Possibly Aggravated By Exposure</b>	Individuals with pre-existing chronic respiratory impairments may be at increased risk of pneumoconiosis.
<b>(6) Reactivity Data</b>	
<b>Hazardous Polymerization</b>	Will not occur
<b>Incompatibility (Materials to Avoid)</b>	None known
<b>(7) Spill or Leak Procedures</b>	
<b>Steps to be Taken in Case Material is Released or Spilled</b>	Use normal housekeeping practice. Vacuum or sweep loose particles or dust.
<b>Waste Disposal Method</b>	Bury in an approved landfill. Incinerating may cause airborne particles. Disposal must be in compliance with Federal, State, & Local laws and regulations.
<b>(8) Protective Equipment to be Used</b>	
<b>Respiratory Protection</b>	Use approved respirator if exposure exceeds PEL limits.
<b>Ventilation</b>	Local ventilation recommended if dust level exceeds PEL limit.
<b>Protective Gloves</b>	Cotton/Latex gloves
<b>Eye Protection</b>	If airborne particles are produced wear safety glasses with side shields.
<b>Other protective equipment</b>	Not required
<b>(9) Special Precautions With Comments</b>	
<b>Clothes</b>	Wash clothes separately from other clothes
<b>(10) References</b>	
<b>ACGIH</b>	Documentation of Threshold Limit Values, current edition
<b>NIOSH</b>	Occupational Health Guidelines
<b>OSHA</b>	Publication 2206 (29 CFR 1910.1000)
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