

**MATERIAL SAFETY DATA SHEET  
SINGLE SOURCE TECHNOLOGIES**

**Product Name:** VersaGraph Graphite  
Grades VG-3, VG-200, VG-150

**Date Prepared:** 10 July 2014

**Manufacturer:** Single Source Technologies  
7680 Innovation Way  
Mason, OH 45040

**Identity:** Synthetic Graphite

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<b>Ingredient</b>	<b>CAS</b>	<b>Concentration</b>	<b>Exposure Limits</b>	
Synthetic Graphite	7782-42-5	> 99.8%	OSHA PEL 2 mg/m <sup>3</sup> Respirable Dust	ACGIH TLV 2 mg/m <sup>3</sup> Respirable Dust

**Boiling Point:** NA

**Specific Gravity:** Typical - 1.81

**Vapor Pressure (mm Hg):** Negligible

**Melting Point:** NA

**Vapor Density (air = 1):** NA

**Evaporation Rate (butyl acetate = 1):** NA

**Solubility in Water:** Insoluble

**Appearance / Odor:** Black/Gray solid, no odor

**Flash Point:** NA

**LEL:** NA

**Flammable Limits:** NA

**UEL:** NA

**Extinguishing Media:** Water, CO<sub>2</sub>, sand or dry chemical

**Special Fire-fighting Procedures:** Use self-contained breathing apparatus, as normal.

**Unusual Fire and Explosion Hazards:** Only very slight explosion hazard when in the form of fine dust and exposed to heat or flame

**Incompatibility:** Strong oxidizing media. Will oxidize slowly at temperatures of 400 °C or greater.

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**Hazardous Decomposition or Byproducts:** Thermal decomposition may produce CO and CO<sub>2</sub> gases.

**Hazardous Polymerization:** Will not occur.

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**Routes of Entry:** Inhalation – as dust.

**Health Hazards (Acute and Chronic):** None in the article form. Repeated overexposure to dust may lead to pneumoconiosis. Dust particles may cause mechanical irritation to eyes or skin.

**Carcinogenicity:** None known

**NTP:** No

**IARC Monographs:** No

**OSHA Regulated:** No

**Signs and Symptoms of Exposure:** Typical for a nuisance dust. Acute effects are not expected for graphite exposure.

**Medical Conditions Generally Aggravated by Exposure:** Individuals with pre-existing chronic respiratory impairments may be at increased risk of pneumoconiosis if prolonged and repeated over-exposures to dust occur.

**Emergency and First Aid Procedures:** If in eyes, flush with water, and seek medical attention if irritation persists. Good hygienic practices are generally adequate. Treat symptomatically.

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**Steps To Be Taken in Case of Spill or Release:** Recommend vacuum pickup of dust.

**Waste Disposal Method:** Subject to local, state and federal regulations for solid waste disposal.

**Precautions to Be Taken in Handling and Storage:** Graphite is electrically conductive; dust accumulations may cause electrical short circuits or other malfunctions.

**Other Precautions:** Maintain good housekeeping practices.

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**Respiratory Protection:** NIOSH approved for dust if TLV or PEL is exceeded.

**Ventilation:** Dust collection when handling.

**Protective Gloves:** NA

**Eye Protection:** Yes, if airborne particles are produced

**Other Protective Clothing or Equipment:** Normal work clothes

**Work and Hygienic Practices:** Wash skin thoroughly with soap and water, work clothing should be routinely laundered.