

## MATERIAL SAFETY DATASHEET

**Material Supplier:** Helix Material Solutions, Inc.  
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### **Section 1 Chemical Identification.....**

Chemical Name: Single Wall Carbon Nanotube (SWCNT)  
Chemical Formula: Carbon  
CAS Number: 7782-42-5 (graphite)

### **Section 2 Composition and Information on Ingredients .....**

Carbon Nanotubes: 50-70 vol% purity  
Impurities: includes nickel, yttrium, and trace amounts of other catalysts

### **Section 3 Hazards Identification.....**

No known hazards, but may cause irritation to eyes, skin, respiratory system, and gastrointestinal tract

### **Section 4 First Aid Measures.....**

Eye Contact: Immediately flush eyes with large amounts of water  
Skin Contact: Immediately wash affected area with large amounts of water  
Inhalation: Remove to fresh air. If difficulties persist, get medical attention.  
Ingestion: Wash out mouth with water. If large amounts swallowed, get medical attention.

**Section 5 Fire Fighting Measures.....**

Flash Point: None known  
Flammability: No known fire or explosion hazards  
Extinguisher Medium: Water, Carbon Dioxide, Dry Chemical, or Foam  
Special Procedures: None  
Decomposition Products: Carbon Monoxide, Carbon Dioxide

**Section 6 Accidental Release Measures.....**

If spilled, sweep into a suitable container for waste disposal.

**Section 7 Handling and Storage.....**

Avoid handling material in presence of air drafts or near fans. Keep in a closed container and store in a cool and dry place.

**Section 8 Exposure Controls and Personal Protection.....**

Eye Protection: Use safety goggles or glasses  
Respiratory Protection: Wear high-efficiency particle respirator to prevent inhalation  
Skin Protection: Wear gloves and protective clothing to prevent skin contact

**Section 9 Physical and Chemical Properties .....**

Appearance: Clumpy, black or dark gray powder  
Boiling Point: Not known  
Solubility in Water: Insoluble  
Decomposition: Decompose in air above 600°C  
PH value: 6-7  
Odor: Odorless

**Section 10 Stability and Reactivity .....**

Stability: Stable  
Incompatibilities: Strong oxidizing agents

Hazardous Polymerization: No  
Hazardous Decomposition: May produce dense smoke, carbon monoxide, carbon dioxide  
Conditions to Avoid: None known

**Section 11 Toxicological Information .....**

No known toxicological hazards.

**Section 12 Ecological Information.....**

Data not yet available.

**Section 13 Disposal Considerations .....**

Follow all local, state, and federal regulations for disposing of this material.

**Section 14 Transportation Information.....**

No regulations. Contact Helix Material Solutions, Inc. for packing and transportation information.

**Section 15 Regulatory Information.....**

This material is listed and regulated by the US Toxic Substances Control Act (TSCA).

**Section 16 Other Information.....**

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