

## MATERIAL SAFETY DATASHEET

**Material Supplier:** Helix Material Solutions, Inc.  
819 W Arapaho Road, Suite 24B-187  
Richardson, Texas 75080  
tel: 214-738-7036  
email: tech@helixmaterial.com

### 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: > 90 % purity  
Impurities: < 2 wt%

### 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.....**

Not regulated. Not a hazardous material for transportation.

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

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

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

**Disclaimer:** This information, opinions, and recommendations contained in this document are compiled from sources believed to be reliable. However, this document is intended only as a guide. Helix Material Solutions, Inc. does not in any way warrants or implies the applicability, viability, or use of this information to any person or for uses any situation. Helix Material Solutions, Inc. accepts no responsibility for damages resulting from the use of this information and from handling the above product.

Revised Date: August 29, 2008