



### 1) Identification

Effective Date: 1/10/2005

Product Name: Synthetic Graphite Anodes with Wax Treatment

### 2) Composition

Carbon / synthetic graphite with 5% Paraffin wax.  
For Graphite: C. A. S. # 7440-44-0 or 7782-42-5%  
For Wax: C. A. S. # 64742-43-4

### 3) Physical Properties

Physical Form: Solid  
Boiling Point: N/A  
Melting Point: N/A  
Vapor Pressure: N/A  
Vapor Density: N/A  
Soluble in water: N/A  
Odor: None  
Volatile by Weight: Less than 1%  
Appearance: Black—Gray

### 4) Exposure Limits

Compound	OSHA-PEL (1989)	ACGIH-TLV (1991)
Synthetic Graphite*	15 mg/m <sup>3</sup>	N/A
Paraffin Wax	No listed limits	N/A

### 5) Fire and Explosion Hazard Data

Flash Point (Method Used): Graphite: N/A Wax: greater than 279°F  
Flammable Limits: N/A  
LFL: N/A UEL: N/A  
Extinguishing Media: Dry chemical foam or water fog.  
Hazardous Decomposition Products: In normal combustion, CO<sub>2</sub> and CO, and smoke and fumes.  
Fire and Explosion Hazards: Dust in high concentrations and confined space may cause an explosive situation.

\*Comments: Swallowing or skin—no affect. In dust form causes irritation to eyes.

Paraffin Wax oral acute exposure after 5,000 mg/kg, and dermal acute after 2,000 mg/kg

### 6) Reactivity Data

Stability: Stable

Incompatibility (Materials to Avoid): None known

Hazardous Decomposition or Byproducts: In normal combustion, CO<sub>2</sub> and CO, and smoke and fumes.

Hazardous Polymerization: Will not occur.

### 7) Health Hazard Data

Route(s) of Entry:

Eyes: Mechanical injury only.

Skin Contact: Mechanical injury only.

Inhalation: Fumes or dust may cause irritation to upper respiratory system. Avoid inhaling dust created during machining processes.

Ingestion: Unlikely due to physical state. Dusts produced incidental to industrial handling are not likely to cause serious injury.

Health Hazards (Acute and Chronic): Based upon available data, repeated exposure is not known to cause any significant adverse effects.

Carcinogenicity: N/A

Emergency and First Aid Procedures: Note to physician: No specific antidote, supportive care. Treatment based upon judgment of physician in response to reaction of the patient.

### 8) Precautions for Safe Handling and Use

Ventilation: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

Respiratory: Dust mask should be worn when handling excessively or machining materials.

Skin Protection: No protections other than clean body covering should be needed.

Eye Protection: Use safety glasses. If there is a potential for exposure to particles, use chemical goggles.

Precautions to be taken in Handling and Storage: None. Avoid leaving in hot areas as paraffin wax may leach out over time.

### 9) Control Measures (Other Precautions)

Actions to take for leaks or spills: Clean up and use.

Disposal Method: Bury in approved landfill in accordance with local regulations.

D.O.T: Graphite is not a D.O.T. Hazardous Material.