

Graphtek LLC - GR-3205 MSDS

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Product: Carbon / Graphite with Antimony

(1) Identification

Chemical Family	Carbon
D.O.T. Hazard Classification	Inert

(2) Ingredients (Inert and Hazardous)

Ingredients / Composition	Antimony 5-10% C.A.S. # 7440-36-0 Antimony is the critical component of this mixture for hazard assessment.
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(3) Physical Data

Boiling Point	None
Vapor Pressure	None
Vapor Density	None
Evaporation Rate	None
Solubility in Water	Insoluble
Appearance	Dark gray to black
Volatile by Weight	None
Specific Gravity	None
Odor	None

(4) Fire and Explosion Data

Flash Point	None
Flammable Limits	None
Extinguishing Media	Foam, sand, carbon dioxide, water spray.
Special Fire Fighting Procedures	Use self-contained breathing apparatus.

Unusual Fire and Explosion Data	Graphite dust is normally not explosive, but may weakly contribute if the event is initiated by another explosive dust or gas.
(5) Health Hazard Data	
Exposure Limits	
OSHA PEL	0.5mg/m ³ as Antimony
ACGIH TLV	0.5mg/m ³ as Antimony
NIOSH	0.5mg/m ³ as Antimony
Effects of Overexposure	
Eyes and skin	Dust particals may cause mechanical irritation.
Breathing	Prolonged and repeated overexposure may lead to benign pneumoconiosis. Breathing of antimony dust/fume may cause fever, a metallic taste, irritation of the upper respiratory tract, and vomiting.
Target Organs	Nervous system, liver, blood, heart
First Aid	
Eye Contact	Do not rub. Flush with plenty of water for at least 15 minuts. Call a physician if irritation persist.
Skin Contact	Wash affected area with soap and water especially before eating, smoking, and at the end of work shift.
Inhalation	Remove to fresh air. If breathing has stopped, administer artificial respiration and supply oxygen. Call a physician.
Ingestion	None necessary.
Medical Conditions Recognized As Possibly Aggravated By Exposure	Individuals with pre-existing chronic respiratory impairments or with serum antitrypsin deficiency may be at increased risk of pneumoconiosis.
(6) Reactivity Data	
Hazardous Polymerization	Will not occur
Conditions and materials to Avoid	Strong oxidants, halogenated compounds, acids
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide, and antimony hydrite
(7) Environmental Protection	
Spill or Leak Procedures	Use normal housekeeping practice. Sweep, shovel, or vacuum up.
Waste Disposal Method	Dispose of according to Federal, State, & Local laws and regulations.
(8) Protective Equipment to be Used	

Respiratory Protection	NIOSH approved respirator for dust and fume.
Ventilation	Local ventilation recommended if dust level exceeds PEL limit.
Protective Gloves	Not required
Eye Protection	Safety glasses with side shields.
Other protective equipment	Not required
(9) Special Precautions	
Precautions for Handling and Storing	None
Other Precautions	Graphite dust is electrically conductive. Dust accumulations may cause electrical short circuits or other malfunctions.
(10) References	
ACGIH	Documentation of Threshold Limit Values, current edition
SAX	Dangerous Properties of Industrial Materials, current edition
Merck Index	Current Edition
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