

Raw Materials Quality Assurance Program

Graphtek LLC Graphite MSDS	
Address	113 McHenry Road, #109 Buffalo Grove IL 60089
Phone Number	847-279-1925
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Product	Carbon / Graphite Grades <i>Anodes</i>
(1) Identification	
Chemical Family	Carbon
D.O.T. Hazard Classification	Inert
(2) Ingredients (Inert and Hazardous)	
Ingredients / Composition	Carbon and or Synthetic Graphite C.A.S. # 7440-44-0 or 7782-42-5. Percent PEL 15 mg/M3 TLV 10 mg/M3 >99%
(3) Physical Data	
Boiling Point	none
Melting Point	none
Evaporation Rate	none
Solubility in water	insoluble
Appearance	Grey-black solid
Volatile by weight	<0.01%
Specific Gravity	1.5-2.2
Vapor Pressure	Negligible at room temperature
Vapor Density	Negligible at room temperature
Odor	none
(4) Fire and Explosion Data	
Flash Point	none

Lower / Upper Explosive Limit	none
Extinguishing Media	Water, CO2, Sand
Extinguishing Media to Avoid	none
Hazardous Decomposition Products	In normal combustion, CO2 and CO.
Special Fire fighting Procedures	Self-contained breathing apparatus, as normal.
Unusual Fire and Explosion Data	Graphite and carbon dusts are normally not explosive, but these may weakly contribute if another explosive dust or gas initiates the event. Graphite and carbon dusts are electrically conductive; dust accumulations may cause electrical short circuits or other electrical malfunctions.
(5) Health Hazard Data	
Permissible Exposure Limit (PEL); See Section 2	
Primary routes of entry	Inhalation of dust.
Effects of overexposure	
Eyes	At high dust level, mechanical irritation.
Breathing	Prolonged and repeated overexposure may lead to benign pneumoconiosis.
Swallowing or Skin	No Effect
First Aid	
If in Eyes	Flush with water if irritation occurs and obtain medical assistance.
If on Skin, Breathed, or swallowed	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
Stability	Stable

Incompatibility (Materials to Avoid)	None known
(7) Spill or Leak Procedures	
Steps to be taken in case material is released or spilled	Use normal housekeeping practice. Vacuum or sweep loose particles or dust.
Waste Disposal Method	Bury in an approved landfill. Disposal must be in compliance with Federal, State, & Local laws and regulations.
(8) Protective Equipment to be used	
Respiratory Protection	Use approved respirator if exposure exceeds PEL limits.
Ventilation	Local ventilation recommended if dust level exceeds PEL limit.
Protective Gloves	Not Required.
Eye Protection	If airborne particles are produced wear safety glasses with side shields.
Other protective equipment	none required
(9) Special Precautions With Comments	
When Machining	Prevent dust escape into atmosphere. Do not breathe dust.
(10) References	
ACGIH	Documentation of Threshold Limit Values, current edition
NIOSH	Occupational Health Guidelines
OSHA	Publication 2206 (29 CFR 1910.1000)

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