

Graphtek LLC - Graphite MSDS

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Product: Carbon / Graphite Grades

(1) Identification

Chemical Family Carbon

D.O.T. Hazard Classification Inert

(2) Ingredients (Inert and Hazardous)

Ingredients / Composition Synthetic Carbon and Graphite
C.A.S. # 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

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
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	Not 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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