

Graphtek - Graphite MSDS

Address: 1348 Busch Parkway
Buffalo Grove, IL 60089
USA

Phone Number: 847-279-1925

Product: EDM Graphite Grades

(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%
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(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.
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(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.
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(10) References

ACGIH	Documentation of Threshold Limit Values, current edition
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NIOSH	Occupational Health Guidelines
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OSHA	Publication 2206 (29 CFR 1910.1000)
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