

**CUMMINGS-MOORE GRAPHITE CO.
MATERIAL SAFETY DATA SHEET**

Hazard Communication Standard
29 CFR 1910, 1200.

TYPE: Natural Graphite, Less than 85-Carbon

IDENTITY: Natural Graphite		Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.			
SECTION I					
Manufacturer's Name: Cummings-Moore Graphite Co. 1646 North Green Ave Detroit, MI 48209		Emergency Telephone Number		908-537-2155	
		Telephone Number for Information		908-537-2155	
		Date: January 2, 2004		Review Date: 1/2005	
		Prepared by: (optional) AVT			
SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION					
Component(s) (Specific Chemical Identity, Common Name(s))	CAS NO.	OSHA PEL	Other Limits ACGIH TLV	Recommended	% (optional)
Graphite	7782-42-5	100	2.0 mg/m ³	Respirable dust.	
Silica 0.0-4.0	14808-60-7	0.05 mg/m ³		Respirable dust	
TSCA Status: Graphite is listed on the US EPA TSCA inventory					
California Proposition 65: Silica is listed on the California Proposition 65 as a cancer agent.					
SECTION III - PHYSICAL CHEMICAL CHARACTERISTICS					
Boiling Point: N/A		Specific Gravity (H ₂ O = 1): 2.20 - 2.35			
Vapor Pressure (mm Hg.): N/A		Melting Point: N/A			
Vapor Density (AIR = 1): N/A		Evaporation Rate: (Butyl Acetate = 1) N/A			
Solubility in Water: Insoluble					
Appearance and Odor: Grey to Black - No Odor					
SECTION IV - FIRE AND EXPLOSION HAZARD DATA					
Flash Point (Method Used): N/A		Flammable Limits: N/A		LEL: N/A UEL: N/A	
Extinguishing Media: Water					
Special Fire Fighting Procedures: Spray with water.					
Unusual Fire and Explosion Hazards: None.					
HMIS RATING 110E		NFPA RATING: 010			

SECTION V - REACTIVITY DATA

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Natural Graphite, Less than 85% Carbon (Page 1) Asbury Graphite Mills, Inc. MSDS

Stability: This material is stable.

Conditions to Avoid: None

Hazardous polymerization: This material will not polymerize.

Conditions to Avoid: None

Incompatibility (Materials to Avoid): Oxidizing Agents.

Hazardous decomposition or byproducts: CO₂, CO (carbon dioxide, carbon monoxide)

SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry:

Inhalation? Skin? Ingestion?

Health Hazards (Acute and Chronic): Cases of pulmonary fibrosis, emphysema and corpulmonale may result from prolonged inhalation of dust (chronic). Minor skin and/or eye irritation may occur.

Carcinogenicity: Silica

NTP? Yes

IARC, Monographs? Yes

OSHA Regulated? No

IARC Monograph Vol. 68, 1997, concludes that there is sufficient evidence that inhaled crystalline silica causes cancer in humans. IARC Classification Group 1

Signs and Symptoms of Exposure: Inhalation - nose and/or throat irritation, shortness of breath.

Skin/Eyes - redness of skin, irritation of eyes.

Medical Conditions Generally Aggravated by Exposure: Emphysema, Asthma, or other respiratory problems.

Emergency and First Aid Procedures: Inhalation - Remove from dust area. Seek medical attention if symptoms persist.

Skin - Wash with mild soap and water. *

Eyes - Rinse eyes with sterile eye wash. *

* Seek medical attention if any irritation persists.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled: Sweep or vacuum.

Waste Disposal Method: Dispose of in an approved manner based on federal/local regulations.

Precautions to be taken in handling and storing: Handle and transfer in a manner, which avoids excessive dusting. Store away from oxidizing agents.

Other Precautions: Graphite is a conductor of electricity. Exercise caution when handling graphite in areas where contact with electrical circuitry is possible.

SECTION VIII - CONTROL MEASURES

Respiratory Protection (Specify Type): Use OSHA approved respirator for nuisance dust.

Ventilation:

Local Exhaust: To dust collector.

Special: None

Mechanical (General): To maintain dust level below ACGIH-TLV.

Other: None

Protective Gloves: Conventional work gloves.

Eye Protection: Safety glasses.

Other Protective Clothing or Equipment: Not required.