

# MP-18V, MP-21V, MP-39V, MP-59V

MSDS # 001

Date: Oct. 11, 1993

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## MATERIAL SAFETY DATA SHEET

KIRKWOOD CARBON CO.  
4857 West 130th St., Cleveland, Ohio 44135  
Telephone - (216) 267-6200

### SECTION I, MATERIAL IDENTIFICATION

Material Name: Graphite-Carbon

Description: A carbonized material consisting predominately of graphite, with a lesser amount of carbon, and possibly with a very small amount of a cleaning agent.

### SECTION II, INGREDIENTS AND HAZARDS

Ingredients	CAS #	Sect. 313	%	Hazard Data
Graphite	7782-42-5	No	50-100	TLV 2.5 mg/M3
Carbon	None	No	0-50	TLV 2.5 mg/M3
Silicon Carbide	409-21-2	No	0-1	TLV 10 mg/M3

This product does not contain toxic chemicals which are subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of CFR 372.

### SECTION III, PHYSICAL DATA

Melting point, 1 atm, deg.F ..... Sublimes @ 6000  
Specific gravity, g/cc ..... 1.3 - 2.0  
Vapor pressure, mm Hg ..... <0.001  
Percent volatile by volume ..... <0.1  
Vapor density ..... N/A - normally solid  
Evaporation rate ..... N/A - normally solid  
Solubility in water ..... Insoluble  
Appearance and odor ..... Gray or black, no odor

### SECTION IV. FIRE AND EXPLOSION DATA

Flash Point	Autoignition Temp.	Flammability Limits in Air
Does not flash	N/A	N/A

Extinguishing media: sand, water, CO2, dry chemical, etc.

Special fire fighting procedure: none, use self-containing breathing apparatus, as normal.

None of the ingredients are normally explosive, but they may weakly contribute if the event is initiated by another explosive material.

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SECTION V, REACTIVITY DATA  
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Incompatibility: strong oxidizing media, will oxidize slowly in air at temperatures greater than 800 deg.F.

Hazardous decomposition or byproducts: carbon combustion produces CO & CO2 gasses.

Hazardous polymerization: will not occur.

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SECTION VI, HEALTH HAZARD INFORMATION (For TLV, see Section II)  
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Routes of entry: inhalation - yes, as dust; skin - no, ingestion - unlikely.

Prolonged and repeated overexposure to dust may cause pulmonary fibrosis or emphysema. Dust particles may cause mechanical irritation to the eye and skin.

Symptoms of exposure: typical for a nuisance dust, acute effects as a local irritant.

Emergency procedure: if in eyes, flush with water. Seek medical attention if irritation persists. Treat symptomatically.

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SECTION VII, DISPOSAL PROCEDURES  
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Steps to be taken if material is released: normal housekeeping practice - sweep, shovel or vacuum cleanup.

Waste disposal method: subject to local, state and federal regulations for solid waste disposal.

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SECTION VIII, SPECIAL PROTECTION INFORMATION  
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Respiratory protection: NIOSH approved type if TLV or PEL is exceeded.

Ventilation: use dust collector when machining.

Eye protection: yes, as appropriate.

Other protective clothing and equipment: normal work clothing.

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SECTION IX, SPECIAL PRECAUTIONS AND COMMENTS  
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Carbon and graphite are electrically conductive. Dust accumulations may cause electrical short circuits or other malfunctions.

APPROVED: \_\_\_\_\_

*Charles Farago*  
Charles Farago  
V.P., Operations