

Safety Data Sheet

Section 1: Identification

Product Identity	Company Details
Product Name: METCAR Molybdenum Disulfide Resin Impregnated Product Description: Carbon Graphite and Molybdenum Disulfide Impregnated with Resin	Metallized Carbon Corporation 19 South Water Street Ossining , NY 10562
Relevant Uses Mechanical applications of carbon products	Phone: (914) 941-3738
	Emergency Telephone Number (914) 941-3738

Section 2: Hazards Identification

Warning: Respiratory and Skin Irritant

Warning: May form Combustible Dust



Typically this product is sold in a pre-machined form to customer specification where there is little to no risk of particle inhalation by the end consumer. In the cases where blank stock is provided to the consumer, machining can release airborne particles that may be inhaled or cause mechanical irritation to the eyes and skin. Acute exposure is typically not a concern but repeated over exposure may lead to respiratory ailments such as Pneumoconiosis. These airborne particles also have the potential to combust if they exist in sufficient quantity.

Section 3: Composition/Information on Ingredients

Component	C.A.S . #	Relative Concentration by Weight
Natural Graphite	7782-42-5	0-90%
Synthetic Graphite	7782-42-5	0-90%
Carbon Coke	7440-44-0	0-90%
Molybdenum Disulfide	1317-33-5	0-90%
Cured Resin	N/A	10-40%

*Exact concentration percentage is withheld as a trade secret

Section 4: First Aid Measures

General:	Treat symptomatically; typical hygienic practices are generally adequate.
Contact:	If dust from the product enters the eyes or irritates the skin flush with water.
Inhaled:	If inhaled seek fresh air and rest. Seek medical attention if irritation persists.
Ingested:	If ingested seek medical attention.

Section 5: Fire-Fighting Measures

Extinguishing Media

Water, Sand, CO2 Etc.

Special Fire Fighting Procedures

Be aware of potential explosion hazard due to dust accumulation. Will emit toxic metal fumes. Use self-contained breathing apparatus as normal.

Section 6: Accidental Release Measures

Steps to Be Taken in Case Material Is Released or Spilled

Normal housekeeping practice; sweep, shovel or vacuum clean up. Avoid creating and inhaling dust.

Section 7: Handling and Storage

Precautions to Be Taken in Handling and Storing

Graphite is electrically conductive. Dust accumulations may cause electrical short circuits or other malfunctions.

Avoid storing near oxidizing agents.

Other Precautions

Provide adequate dust collection and/or ventilation during machining.

Section 8: Exposure Controls/Personal Protection

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TVL	Other Limits Recommended
Natural Graphite (C.A.S. #7782-42-5)	15mg/m ³	2mg/m ³	N/A
Synthetic Graphite (C.A.S. #7782-42-5)	15mg/m ³	2mg/m ³	N/A
Carbon (C.A.S. #7440-44-0)	15mg/m ³	10mg/m ³	N/A
Molybdenum Disulfide(C.A.S.#1317-33-5)	15mg/m ³	10mg/m ³	N/A
Cured Resin	N/A	N/A	N/A

Necessary Respiratory Protection: NIOSH/OSHA approved respirator if TLV or PEL is exceeded.

Ventilation	Local Exhaust Dust collection when machining.	Special	N/A
	Mechanical (General) N/A	Other	N/A
Protective Gloves Yes adequate to prevent skin contact	Eye Protection Yes if airborne particles are produced.		
Other Protective Clothing or Equipment Normal work clothing			
Work/Hygienic Practices Avoid food and drinks. Wash hands before eating			



Section 9: Physical and Chemical Properties

Boiling Point Sublimes at 3000°C	Decomposition Temp N/A	Specific Gravity (H2O = 1) 2.2-3.0	Partition Coefficient N/A
Vapor Pressure (mm Hg) Negligible at room temperature	pH N/A	Melting Point Does not melt	Decomposition Temperature N/A
Vapor Density (AIR = 1) Normally Solid N/A	Viscosity N/A	Evaporation Rate (Butyl Acetate = 1) Normally Solid	Auto-ignition temperature N/A

Solubility in Water Insoluble

Appearance and Odor

Gray-Black Solid / No Odor

Flash Point

Does not flash

Flammable Limits

N/A

LEL

N/A

UEL

N/A

Unusual Fire and Explosion Hazards

Carbon dust is not normally explosive but it may weakly contribute if the event is initiated by another explosive dust or gas.

Section 10: Stability and Reactivity

Stability	Unstable		Conditions to Avoid N/A
	Stable X		

Incompatibility (Materials to Avoid)

Strong oxidizing media will oxidize slowly in air at temp 400°C

Hazardous Decomposition or Byproducts

Combustion produces CO and CO₂. May form Molybdenum Trioxide.

Hazardous Polymerization	May Occur		Conditions to Avoid N/A
	Will Not Occur X		

Section 11: Toxicological Information

Route(s) of Entry:	Inhalation?	Yes as dust	Skin?	NO	Ingestion?	Unlikely
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Health Hazards (Acute and Chronic)

Prolonged and repeated over exposure to dust may lead to Pneumoconiosis.

Dust particles may cause mechanical irritation to eyes and skin.

Molybdenum Disulfide has been known to cause anorexia and listlessness in animals.

Carcinogenicity:	NTP?	NO	IARC Monographs?	NO	OSHA Regulated?	NO
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Signs and Symptoms of Exposure

As typical for nuisance dust, acute effects are not expected.

Medical Conditions

Generally Aggravated by Exposure

Individuals with pre-existing chronic respiratory impairment or with Serum antitrypsin deficiency may be at risk of Pneumoconiosis if prolonged.

Section 12: Ecological Impact

There is no data to suggest that this material would pose a threat to the environment. The constituent materials are relatively inert and not expected to have any meaningful impact on the environment.

Section 13: Disposal Considerations

Waste Disposal Method

Subject to local State and Federal Regulations for solid waste disposal. This product is not considered a hazardous waste.

Section 14: Transport Information

This product is not regulated by the US DOT, IATA or IMO.

Section 15: Regulatory Information

All components of this product are listed on the EPA TSCA inventory

Section 16: Other Information

Acronyms:

C.A.S. # – Chemical Abstracts Service Registry Number
OSHA PEL – Occupational Safety and Health Administration Particle Exposure Limit
ACGIH TLV – American Conference of Governmental Industrial Hygienists Threshold Limit Values
LEL/UEL – Lower/Upper Explosive Limit
NTP – National Toxicology Program
IARC – International Agency for Research on Cancer
LC50 – Lethal Concentration to kill 50% of the population
LD50 – Lethal Dose at which 50% of the population is killed
US DOT – United States Department of Transportation
IATA – International Air Transport Association
IMO – International Maritime Organization
EPA TSCA: Environmental Protection Agency Toxic Substance Control Act

Disclaimer: The information presented in this SDS is provided based on the data available at this time. No warranty is implied through the materials provided and we assume no responsibility for its use. It is the user's responsibility to assure the proper use of this product.

Prepared on: May 25, 2016
