Safety Data Sheet
Metallized Carbon Corporation
19 South Water Street
Ossining , NY 10562
Phone: (914) 941-3738

Safety Data Sheet

Section 1: Identification

Product Identity	**Company Details**
Product Name: METCAR Molybdenum Disulfide Antimony Impregnated	Metallized Carbon Corporation 19 South Water Street Ossining , NY 10562
Product Description: Carbon Graphite and Molybdenum Disulfide Impregnated with Antimony	
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%
Antimony	7440-36-0	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.

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Section 5: Fire-Fighting Measures

Extinguishing Media

Water, Sand, CO_2 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
Antimony	0.5 mg/m^3	0.5mg/m^3	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

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Section 9: Physical and Chemical Properties

Boiling Point	**Decomposition Temp**	**Specific Gravity (H20 = 1)**	**Partition Coefficient**
Sublimes at 3000°C	N/A	2.2-3.0	N/A
Vapor Pressure (mm Hg)	**pH**	**Melting Point**	**Decomposition Temperature**
Negligible at room temperature	N/A	Does not melt	N/A
Vapor Density (AIR = 1)	**Viscosity**	**Evaporation Rate (Butyl Acetate = 1)**	**Auto-ignition temperature**
Normally Solid N/A	N/A	Normally Solid	N/A

Solubility in Water Insoluble

Appearance and Odor

Gray-Black Solid / No Odor

Flash Point	**Flammable Limits**	**LEL**	**UEL**
Does not flash	N/A	N/A	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 and Antimony 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

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.

Chronic inhalation of Antimony Trioxide is reported to produce a reduction in white blood cells and damage the liver.

Carcinogenicity: **NTP?** NO **IARC Monographs?** NO **OSHA Regulated?** NO

Signs and Symptoms of Exposure

Metallic taste, vomiting, colic, loss of appetite, loss of weight, diarrhea, dermatitis, inflammation of the hair follicles, and sloughing

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

Antimony is hazardous to local wildlife both aquatic and land based as it may seep into soil if not disposed of properly.

Section 13: Disposal Considerations

Waste Disposal Method

Subject to local State and Federal Regulations for solid waste disposal. Recovery should be considered otherwise dispose of it in a chemical waste landfill.

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

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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