

Safety Data Sheet

Section 1: Identification

| Product Identity | | Company Details | |
|----------------------|---|--|--|
| Product Name: | METCAR Lead-Free Babbitt Impregnated | Metallized Carbon Corporation | |
| Product Description: | Carbon Graphite with Lead-Free Babbitt Impregnation | 19 South Water Street | |
| Relevant Uses | Mechanical applications of carbon products. | Ossining , NY 10562 | |
| | | 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% |
| Tin | 7440-31-5 | 10-40% |
| Antimony | 7490-36-0 | 1-10% |
| Copper | 7440-51-8 | 1-10% |

*Exact concentration percentage is withheld as a trade secret

Section 4: First Aid Measures

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|----------|--|
| 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, CO2 Etc.

Special Fire Fighting Procedures

Be aware of potential explosion hazard due to dust accumulation. 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 breathing 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 and halogenated acids or in extreme heat

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 |
| Tin (C.A.S.#7440-44-0) | 2mg/m ³ | 2mg/m ³ | N/A |
| Antimony(C.A.S.#7490-36-0) | 0.5mg/m ³ | 0.5mg/m ³ | N/A |
| Copper(C.A.S.#7440-51-8) | 1mg/m ³ | 1mg/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

Section 9: Physical and Chemical Properties (Babbitt)

| | | | |
|---|----------------------------------|--|---|
| Boiling Point 4873°F | Decomposition Temp N/A | Specific Gravity (H2O = 1) 7.4 | Partition Coefficient N/A |
| Vapor Pressure (mm Hg) Negligible at room temperature | pH N/A | Melting Point 460°F | Decomposition Temperature N/A |
| Vapor Density (AIR = 1) Normally Solid N/A | Viscosity N/A | Evaporation Rate (Butyl Acetate = 1) N/A | Auto-ignition temperature N/A |

Solubility in Water Insoluble

Appearance and Odor

Dark 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

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| Stability | Unstable | | Conditions to Avoid Extreme heat |
| | Stable X | | |

Incompatibility (Materials to Avoid)

Strong oxidizers, oxidizing acids and halogenated acids.

Hazardous Decomposition or Byproducts

Antimony Oxide

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

Section 11: Toxicological Information

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|--------------------|-------------|-------------|-------|----|------------|----------|
| 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.

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

| | | | |
|-------------------------|-------------|-------------------------|------------------------|
| Carcinogenicity: | NTP? | IARC Monographs? | OSHA Regulated? |
| | No | No | 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 exposure is 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 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

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
