40

## **SECTION I - IDENTIFICATION**

Company Name:

Address:

St. Marys Carbon Company

1939 State Street

St. Marys, PA 15857

**Telephone:** (814) 781-7333

Prepared by: Phil Schlosser

Product Name:

CARBON/GRAPHITE PRODUCTS WITH METALLIC ADDITIVES

**Chemical Name:** 

**MIXTURE** 

Date Prepared:

01/02/03

Replaces:

01/21/02

Least 0

Slight

**Hazard Rating** 

Moderate 2

High 3

**Extreme** 4

Reactivity = 0

INGREDIENT

PERCENT

C.A.S. NO.

CARBON/GRAPHITE, NATURAL

Trade Secret

7740-44-0/7782-42-5

\*SILICA, CRYSTALLINE QUARTZ

Not Determined

14808-60-7

**COPPER** 

32-88%

7440-50-8

**OSHA PEL:** 

Copper - 1mg/cubic meter (dust), 0.1mg/cubic meter (fume)

Graphite -2.5 mg/cubic meter (respirable) Silica - 0.1 mg/cubic meter (respirable)

40

ACGIH TLV: Copper

Copper - 1mg/cubic meter

Graphite -2 mg/cubic meter (respirable) Silica - 0.1 mg/cubic meter (respirable)

CARCINOGEN:

NTP - no

IARC - \*yes OSHA - no

\*\*\*\*\*\*\*\*\*

"The product is a solid electrical component ranging from dark grey to copper or metallic color and presents no immediate hazards. However, dust created in shipping, handling, and use may exhibit the hazards of the ingredients as described below. AVOID CREATING AND BREATING DUST FROM THE PRODUCT. Burning of the product may release toxic metallic oxides and irritating vapors."

### SECTION IV - HEALTH HAZARDS

Effects of exposure: Prolonged and repeated overexposure to dust may lead to pneumoconiosis.

Dust particles may cause mechanical irritation to the eyes and skin. Individuals with pre-existing chronic respiratory impairment may be at

increased risk of pneumoconiosis.

Copper compounds can irritate skin and eyes. Prolonged exposure to skin can cause dermatitis. Embedded particles in eyes can cause inflammation, degeneration of tissues and discoloration. Inhalation of fine dusts can cause metal fume fever (with flu-like symptoms). Ingestion can cause gastrointestinal irritation. Persons with Wilson's disease should not be exposed to copper.

### SECTION V - EMPLOYEE PROTECTION

Respiratory Protection: NIOSH approved respirator for dust if exposures are expected to

exceed the PELs.

Eye Protection: Safety glasses with side shields if there is a danger of flying

particles.

**Protective Gloves:** Recommended for those with extreme sensitivity.

Other Protective Eye-wash fountain, soap and water wash station.

Equipment:

40

Ventilation:

At point of operation if machining or other dust-creating activities

are performed.

### SECTION VI - FIRST AID

**Skin Contact:** 

Wash affected area with soap and water especially before eating, smoking,

and at the end of work shift.

**Eye Contact:** 

Do not rub eyes; immediately flush eyes with plenty of water for at least

15 minutes. Call a physician if irritation persists.

Inhalation:

Remove to fresh air and administer artificial respiration if breathing has

stopped; oxygen may also be administered. Seek medical attention.

Ingestion:

Dilute with water or milk. Get medical attention as soon as possible.

### **SECTION VII - FIRE EXPLOSION DATA**

Flash Point (method used):

Does not flash

Flammable Limits:

N/A

LEL:

**UEL:** 

Extinguishing Media:

Water fog, carbon dioxide, foam.

Special Fire Fighting

Procedures:

Use self-contained breathing apparatus.

Unusual Fire and Explosion

Hazards:

Copper powder below 50 um particle size is listed as weakly explosive. Carbon/Graphite dusts may weakly

contribute if the event is initiated by another explosive dust

or gas.

40

### **SECTION VIII - SPECIAL PRECAUTIONS**

Precautions for Handling and Storing: Handle in a manner which minimizes airborne dust.

Other Precautions: Graphite dust is electrically conductive; dust accumulations may cause

electrical short circuits or other malfunctions.

## **SECTION IX - ENVIRONMENTAL PROTECTION**

Spill or Leak Procedures: Normal housekeeping practices; sweep, shovel, or vacuum clean-

up with a HEPA filter.

Waste Disposal Method: Dispose of according to local, state, and federal regulations.

#### **SECTION X - PHYSICAL DATA**

Boiling Point (C) : 1725
Vapor Pressure (mm Hg) : N/A
Specific Gravity (H2O=1) : 6.1-6.3
Vapor Density (Air=1) : N/A
Evaporation Rate (Butyl Alcohol=1) : N/A
Solubility in Water : Insoluble
Percent Volatile by Volume : N/A

Appearance / Odor : Reddish, orange solid / no odor

### SECTION XI - REACTIVITY DATA

Unstable [ • ] Stable Hazardous

Polymerization: [ ] May Occur [ •

Polymerization: May Occur • Will not occur

Conditions and Materials to Avoid: Strong alkalies, chlorates, bromates, mineral acids.

40

**Hazardous Decomposition Products:** 

May yield hydrogen and noxious copper

compounds, carbon monoxide and carbon dioxide

gases.

### **SECTION XII - SECTION 313 SUPPLIER NOTIFICATION**

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

<u>CAS #</u> 7440-50-8

Chemical Name Copper Percent by Weight 88 Max.

#### **SECTION XIII - REFERENCES**

ACGIH:

Documentation of Threshold Limit Values

OSHA:

29 CFR 1910.1000, Table Z-1

THIS PRODUCT SAFETY SHEET IS OFFERED SOLELY FOR YOUR INFORMATION, CONSIDERATION AND INVESTIGATION. THE INFORMATION AND DATA ARE TAKEN FROM SOURCES BELIEVED TO BE RELIABLE AND CORRECT, BUT CANNOT BE WARRANTED BY THE MANUFACTURER.

This is the end of MSDS 40.