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SECTION I - IDENTIFICATION

Company Name:

St. Marys Carbon Company

Address:

1939 State Street

St. Marys, PA 15857

GRAPHITE PRODUCTS WITH METALLIC ADDITIVES

Chemical Name:

Product Name:

MIXTURE

Date Prepared:

01/02/03

Replaces:

01/24/02

Least

Slight 1

Hazard Rating

Moderate

2

High 3

Extreme

Reactivity = 0

Telephone: (814) 781-7333

Prepared by: Phil Schlosser

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT PERCENT C.A.S. NO. GRAPHITE, NATURAL Trade Secret 7782-42-5 *SILICA, CRYSTALLINE QUARTZ Not Determined 14808-60-7 **COPPER** 20%-90% 7440-50-8 **ADDITIVE** Trade Secret N/A

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SECTION III - OCCUPATIONAL EXPOSURE LIMITS

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)

ACGIH TLV:

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 BREAT-ING 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.

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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

Equipment:

Eye-wash fountain, soap and water wash station.

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:

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Extinguishing Media:

Water fog. carbon dioxide, foam.

Special Fire Fighting

Use self-contained breathing apparatus.

Procedures:

Unusual Fire and Explosion

Hazards:

Copper powder below 50 um particle size is listed as weakly explosive. Graphite dusts may weakly contribute if the event is initiated by another explosive dust or gas.

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 PRO

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.

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

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SECTION XI - REACTIVITY DATA

Unstable [◆] Stable

Hazardous

Polymerization: May Occur • Will not

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Conditions and Materials to Avoid:

Strong alkalies, chlorates, bromates, mineral acids.

Hazardous Decomposition Products:

May yield hydrogen and noxious copper

compounds, carbon monoxide, carbon dioxide and

formaldehyde.

SECTION XII - SECTION 313 SUPPLIER NOTIF

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:

> CAS# 7440-50-8

Chemical Name Copper

Percent by Weight 90 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 INFOR-MATION, 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 49.

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