

Copper metal wire, sheet, and foil
MSDS# 89169

Section 1 - Chemical Product and Company Identification

MSDS Name:

Copper metal wire, sheet, and foil

Catalog Numbers:

C/7050/50, C/7050/53, C/7090/48, C/7090/53, C/7210/53

Synonyms:

None.

Company Identification: Fisher Scientific UK

Bishop Meadow Road, Loughborough

Leics. LE11 5RG

For information in Europe, call: (01509) 231166

Emergency Number, Europe:

01509 231166

Section 2 - Composition, Information on Ingredients

CAS#: 7440-50-8

Chemical Name: Copper

#: 100

EINECS#: 231-159-6

Hazard Symbols:

None listed

Risk Phrases:

None listed

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Not available

Potential Health Effects

Eye:

Dust may cause mechanical irritation.

Skin:

Dust may cause mechanical irritation.

Ingestion:

Inhalation:

Low hazard for usual industrial handling.

Chronic:

Prolonged or repeated skin contact may cause dermatitis. May cause liver and kidney damage.

Section 4 - First Aid Measures

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin:

Get medical aid if irritation develops or persists. Flush skin with plenty of soap and water.

Ingestion:

If victim is conscious and alert, give 2-4 cupfuls of milk or water.

Get medical aid immediately.

Inhalation:

Remove from exposure and move to fresh air immediately. Get medical aid if cough or other symptoms appear.

Notes to Physician:

Individuals with Wilson's disease are more susceptible to chronic copper poisoning.

Section 5 - Fire Fighting Measures

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media:

Use extinguishing media most appropriate for the surrounding fire.

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions.

Section 7 - Handling and Storage

Handling:

Minimize dust generation and accumulation. Avoid ingestion and inhalation.

Storage:

Store in a cool, dry place.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Good general ventilation should be sufficient to control airborne levels.

Exposure Limits

CAS# 7440-50-8:

United Kingdom, WEL - TWA: 0.2 mg/m³ TWA (fume); 1 mg/m³ TWA (dust and mist)

United Kingdom, WEL - STEL: 0.6 mg/m³ STEL (fume); 2 mg/m³ STEL (dust and mist)

United States OSHA: 0.1 mg/m³ TWA (fume); 1 mg/m³ TWA (dust and mist)

Belgium - TWA: 0.2 mg/m³ VLE (fume); 1 mg/m³ VLE (dust and mist)

France - VME: 0.2 mg/m³ VME (fume); 1 mg/m³ VME (dust, as Cu)

France - VLE: 2 mg/m³ VLCT (dust, as Cu)

Malaysia: 0.2 mg/m³ TWA (fume, as Cu); 1 mg/m³ TWA (dust and mist, as Cu)

Netherlands: 0.2 mg/m³ MAC (smoke); 1 mg/m³ MAC (dust)

Russia: 0.5 mg/m³ TWA (aerosol)

Russia: 1 mg/m³ STEL (aerosol)

Spain: 0.2 mg/m³ VLA-ED (fume); 1 mg/m³ VLA-ED (dust and mist, as Cu)

Personal Protective Equipment

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Protective garments not normally required.

Clothing:

Protective garments not normally required.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Solid
Color: red to brown
Odor: Not available
pH: Not available
Vapor Pressure: 1 mm Hg @1628C
Viscosity: Not applicable.
Boiling Point: 2595 deg C (4,703.00°F)
Freezing/Melting Point: 1083 deg C (1,981.40°F)
Autoignition Temperature: Not applicable
Flash Point: Not applicable.
Explosion Limits: Lower:Not available
Explosion Limits: Upper:Not available
Decomposition Temperature: Not available
Solubility in water: Insoluble in water.
Specific Gravity/Density: 8.92
Molecular Formula: Cu
Molecular Weight: 63.546

Section 10 - Stability and Reactivity

Chemical Stability:
Stable at room temperature in closed containers under normal storage and handling conditions. Explosive peroxides may form on concentration. Peroxides can be detonated by friction, impact, or heating.
Conditions to Avoid:
Incompatible materials, dust generation, moisture, exposure to air.
Incompatibilities with Other Materials
Not available
Hazardous Decomposition Products
Copper fumes.
Hazardous Polymerization
Has not been reported.

Section 11 - Toxicological Information

RTECS#:
CAS# 7440-50-8: GL5325000 GL7440000 GL7590000
LD50/LC50:
RTECS: Not available.
Carcinogenicity:
Copper -
Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other:
See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

Products considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location.
Contact a specialist disposal company or the local authority or advice. Empty containers must be decontaminated before returning for recycling.

Section 14 - Transport Information

IATA
Shipping Name: Not regulated.
Hazard Class:
UN Number:

Packing Group:
IMO Shipping Name: Not regulated.
Hazard Class:
UN Number:
Packing Group:

RID/ADR Shipping Name: Not regulated.
Hazard Class:
UN Number:
Packing Group:

USA RQ: CAS# 7440-50-8: 5000 lb final RQ (no reporting of releases of this hazar

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:Not available

Risk Phrases:

Safety Phrases:

WGK (Water Danger/Protection)

CAS# 7440-50-8: 0

Canada

CAS# 7440-50-8 is listed on Canada's DSL List

US Federal

TSCA

CAS# 7440-50-8 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date:

12/12/1997

Revision #4 Date

3/16/2007

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