

Material Safety Data Sheet

Section 1: Company and Product Identification

Scholar[™]
Chemistry

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Manufactured by:
Columbus Chemical Industries, Inc.
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24 HOUR EMERGENCY ASSISTANCE CHEMTREC 800-424-9300		
HAZARD RATING		
4- EXTREME	HEALTH	1
3- SEVERE		
2- MODERATE	FLAMMABILITY	0
1- SLIGHT		
0- MINIMAL	REACTIVITY	0

Product Name Copper Metal Shot

Material Uses Electroplating.

Product No. 9412504

Synonyms Not available.

CAS 7440-50-8

Formula Cu

Section 2: Hazardous Ingredients

Product Name	CAS	Conc (%)	PIN
1) Copper*	7440-50-8	99.3	N/A
2) Tellurium	13494-80-9	0.7	N/A
3) Sulfur	7704-34-9	0.5	N/A
4) Phosphorous	7723-14-0	0.05	N/A
5) Oxygen	7782-44-7	0.02	N/A

For Exposure Limits (TLV, PEL), LD50 and LC50 see section 5 of this document.

* Chemical subject to the reporting of SARA Title III.

Section 3: Physical Data

Appearance	Solid.	Odor Threshold	Not available.
Color	Reddish-brown metal.	Vapor Pressure	Not available.
Odor	Odorless.	Evaporation Rate (Reference solvent)	Not available.
Specific Gravity (Water = 1)	8.94 (Water = 1)	Vapor Density (Air = 1)	Not available.
Melting Point	1051 to 1083°C (1923.8 to 1981.4°F)	Percent Volatile by Volume	Not available.
Boiling Point	Not available.	pH (1% water soln)	Not applicable.
Water/Oil Dist. Coeff.	Not available.	Solubility	Insoluble in cold water, hot water.

Section 4: Fire and Explosion Hazard Data

Flash Point (Methods)	Not applicable.	Autoignition Temp.	Not applicable.
Flammable Limits in Air by Volume	Not applicable.		
Flammability	Not applicable.		

Explosion Hazard Not available.

Haz. Comb. Prod. Not applicable.

Means of Extinction Use extinguishing media suitable for surrounding materials.

Special Fire Fighting Procedures

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Unusual Fire and Explosion Hazards

Solid massive form is not combustible.

Section 5: Health Hazard Data

Exposure Limits TLV: 1 mg/m³ from ACGIH (United States). Form: Dust (P.E.L., TLV, etc.) PEL: 1 mg/m³ from OSHA (United States). Form: Dust

Acute Effects No specific information is available in our database regarding the acute toxic effects of this material for humans. Melting, grinding, cutting of copper may produce fumes or dust exposure and breathing these may cause metal fume fever with flu-like symptoms and skin and hair discoloration.

Routes of Entry Not available.

LD50/LC50

LD50: Not available.

LC50: Not available.

Effects of Overexposure

Repeated or prolonged exposure is not known to aggravate medical condition.

Emergency and First Aid Procedures

FIRST AID SKIN: Wash contaminated skin with soap and water. EYES: Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention.

INHALATION: Move exposed person to fresh air.

Section 6: Reactivity Data

Stability The product is stable. Instability Temp. Not available.

Incompatibility Reactive with oxidizing agents, acids, ammonia.

Degradation Prod. Some metallic oxides.

Hazardous polymerization?

Will not occur.

Materials to Avoid Not available.

Section 7: Spill or Leak Procedures

Spill Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Disposal Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 8: Protection Equipment Information

Equipment Safety glasses. Lab coat. Vinyl gloves.

Engineering Controls

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Section 9: Other Information

Special Precautions Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 4). When remelting copper avoid presence of moisture.

Read label on container before using. Do not wear contact lenses when working with chemicals.

Verified by S. Quant

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For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

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