

Safety Data Sheet

Part Number 326611

Section 1. Substance Identity and Company Contact Information

Product Name	Copper Shot, -3 + 14 mesh, 99%	Product Part Number(s)	265223, 274621, 308817, and 322307
Trade Name	Copper Shot, -3 + 14 mesh, 99%	Unit Size	20 g, 100 g
Company	OI Analytical, P.O. Box 9010, College Station, TX 77842-9010, Phone: (979) 690-1711, Fax: (979) 690-0440		

Emergency No. 1-800-424-9300 (Chemtrec). Use only in the event of chemical emergencies involving spills, leaks, fire, exposure, or accidents involving chemicals.

Section 2. Hazards Identification

Pictogram(s)



Signal Word

Danger

Precautionary Statement(s)

Chronic copper poisoning is typified by hepatic cirrhosis, brain damage and demyelation, kidney defects, and copper deposition in the cornea as exemplified by humans with Wilson’s disease. Copper poisoning has also been reported to lead to hemolytic anemia and accelerated arteriosclerosis.

Target Organ(s)

Kidneys, brain, and eyes

Potential Health Effects

Eye:	May cause irritation.
Skin:	May cause irritation. May be harmful if absorbed through the skin.
Ingestion:	Harmful if swallowed.
Inhalation:	May be harmful if inhaled. Material may be irritating to mucus membrane and upper respiratory tract.

Chronic Carcinogenicity

Effects/	IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.
	NTP:	No component of this product at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
	OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Teratology (Birth Defects)

No data available

Reproductive Information

No data available

NFPA Ratings

Health:	0
Flammability:	0
Reactivity:	0
Special Notice Key:	Not data available

HMIS Rating	Health:	0
	Flammability:	0
	Reactivity:	0
	Protective Equipment:	Not data available

Section 3. Chemical Composition and Data on Components

Ingredient	CAS No.	Percent	Hazard Data	
			ACGIH TLV	OSHA PEL
Copper, Cu	7440-50-8	100	1 mg/m ³	0.2 mg/m ³

Section 4. First Aid Measures

General Advice	Not data available
If Inhaled	Remove to fresh air. If not breathing, give artificial respiration.
In Case of Skin Contact	Wash off with soap and plenty of water.
In Case of Eye Contact	Wash eyes with water as a precaution.
If Swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water.
Indication of Any Immediate Medical Attention and Special Treatment Needed	No data available.

Section 5. Fire-fighting Measures

General Information	Use protective clothing and breathing equipment appropriate for the surrounding fire.
Suitable Extinguishing Media	Use water spray, carbon dioxide, dry chemical powder, or appropriate foam.
Special Hazards Arising from the Substance or mixture	Copper oxides
Advice for Firefighters	Wear a self-contained breathing apparatus for fire fighting, if necessary.
Flash Point	Not data available
Autoignition Temperature	Not data available
Further Information	No data available

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures	Avoid dust formation. Avoid breathing vapors, mist, or gas.
Environmental Precautions	No special environmental precautions required.
Methods and Materials for Containment and Cleaning	Sweep up and shovel. Keep in suitable, closed containers for disposal.
Reference to Other Sections	For disposal, see Section 13.

Section 7. Handling and Storage

Precautions for Safe Handling	Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.
Conditions for Safe Storage, Including any Incompatibilities	Keep container tightly closed in a dry and well-ventilated place. Store under inert gas. Air sensitive. Storage class: Non combustible solids.
Specific End Use(s)	Apart from the uses mentioned in Section 1, no other specific uses are stipulated.

Section 8. Exposure Controls and Personal Protection

Components with Workplace Control Parameters	Copper
Appropriate Engineering Controls	General industrial hygiene practice
Eye/Face Protection	Face shield and safety glasses
Skin Protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Body Protection	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and the specific workplace.
Respiratory Protection	Respiratory protection is not required.
Control of Environmental Exposure	No special environmental precautions required.

Section 9. Physical and Chemical Properties

Appearance	Form: Shot; Color: Light red
Odor	Not data available
Odor Threshold	No data available
pH	Not data available
Melting Point/Freezing Point	1,083.4 °C (1,982.1 °F)
Initial Boiling Point and Boiling Range	2,567 °C (4,653 °F)
Flash Point	No data available
Evaporation Rate	No data available
Flammability (solid, gas)	This product is not flammable.
Upper/Lower Flammability or Explosive Limits	No data available
Vapor Pressure	Not data available
Vapor Density	8.940 g/cm ³
Relative Density	8.94 g/mL at 25 °C (77 °F)
Water Solubility	Not data available
Partition Coefficient : n-octanol/water	No data available
Auto-ignition Temperature	Not data available
Decomposition Temperature	No data available
Viscosity	No data available
Explosive Properties	No data available
Oxidizing Properties	No data available
Other Safety Information	No data available

Section 10. Stability and Reactivity

Reactivity	No data available
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	No data available
Conditions to Avoid	No data available
Incompatible Materials	Strong acids, strong oxidizing agents, acid chlorides, and halogens

Section 11. Toxicological Information

Routes of Exposure	<i>On the skin:</i>	May be harmful if absorbed through skin. May cause irritation.
	<i>On the eye:</i>	May cause irritation.
	<i>Inhalation:</i>	May be harmful if inhaled. May cause respiratory tract irritation.
	<i>Ingestion:</i>	May be harmful if swallowed.
Respiratory or Skin Sensitization		Not data available
Signs and Symptoms of Overexposure		Symptoms of systemic copper poisoning may include: capillary damage, headache, cold sweat, weak pulse, and kidney and liver damage, central nervous system excitation followed by depression, jaundice, convulsions, paralysis, and coma. Death may occur from shock or renal failure. Chronic copper poisoning is typified by hepatic cirrhosis, brain damage and demyelination, kidney defects, and copper deposition in the cornea as exemplified by humans with Wilson's disease. It has also been reported that copper poisoning has led to hemolytic anemia and accelerates arteriosclerosis.
Toxicity Data	<i>Oral Rat</i>	Not data available

Section 12. Ecological Information

General Notes Avoid release to the environment.

Section 13. Disposal Considerations

Product Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated Packaging Dispose of as unused product.

Section 14. Transport Information

DOT Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper)
UN Proper Shipping Name	Not data available
DOT Hazard Class	9
Packing Group	III
UN Number	UN3077
Hazardous Ingredients	Not data available
DOT Label	9, miscellaneous
DOT Placard	9, miscellaneous
IMDG Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper)
UN Number	UN3077
Class	9
Packing Group	III
IATA Shipping Name	Environmentally hazardous substance, solid, n.o.s. (Copper)
Technical Shipping Name	Not data available
IATA Hazard Class	9
UN Number	UN3077
Hazardous Ingredients	Not data available
IATA Label	9, miscellaneous
IATA Placard	9, miscellaneous

Section 15. Regulatory Information

OSHA Status	Not data available
TSCA Status	Not data available
CERCLA Reportable Quantity	Not data available
SARA Title III	No products were found.
RCRA Status	Not data available
California Proposition 65	This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.
Chemical Weapons Convention	No
TSCA 12 (b)	Not data available
SARA 311/312	Acute: Copper Chronic: Not data available Fire: Not data available Pressure: Not data available Reactivity: Not data available
Australian Hazchem Code	Not data available
Poison Schedule	Not data available
WHMIS	Not controlled

Section 16. Other Information

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