# spectrum®



## SAFETY DATA SHEET

Preparation Date: 12/27/2016

Revision date 4/9/2019

Revision Number: G2

#### **1. IDENTIFICATION**

Product identifier

Product code: Product Name: C1340 COPPER METAL, SHOT

Other means of identification Synonyms: CAS #: RTECS # CI#:

No information available 7440-50-8 GL5325000 Not available

Recommended use of the chemical and restrictions on use			
Recommended use:	No information available.		
Uses advised against	No information available		

Supplier:

r: Spectrum Chemical Mfg. Corp 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000

Order Online At:	https://www.spectrumchemical.com
Emergency telephone number	Chemtrec 1-800-424-9300
Contact Person:	Tom Tyner (USA - West Coast)
Contact Person:	Ibad Tirmiz (USA - East Coast)

#### 2. HAZARDS IDENTIFICATION

#### **Classification**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

#### Label elements

#### Not classified

Hazards not otherwise classified (HNOC) Not Applicable

Other hazards Not available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component		CAS No	Weight-%
Copper Metal		7440-50-8	100
	4. FIR	ST AID MEASURES	
First aid measures			
General Advice:		emergency and need to ta	nited States can provide assistance if you alk to a poison specialist. Call
Skin Contact:			f water removing all contaminated clothing and lops. Consult a physician if necessary.
Eye Contact:	Flush eyes with v persist, call a phy		edical attention if irritation occurs. If symptoms
Inhalation:	Move to fresh air oxygen. Get mec		ial respiration. If breathing is difficult, give
Ingestion:		miting without medical advic son. Consult a physician if n	ce. Never give anything by mouth to an ecessary.
Most important symptoms and effe	cts, both acute ar	nd delayed	
Symptoms	Health injuries are not known or expected under normal use Ingestion may cause nausea, vomiting, and diarrhea		
Indication of any immediate medica	al attention and s	pecial treatment needed	
Notes to Physician:	Treat symptomat	tically.	
Protection of first-aiders First-Aid Providers: Avoid exposure t contaminated clothing and equipment	o blood or body flui as bio-hazardous	ids. Wear gloves and other waste.	necessary protective clothing. Dispose of
	5. FIRE-	FIGHTING MEASURE	S
Extinguishing Media Suitable Extinguishing Media:		•	ot flammable. If it is involved in a fire, e using an agent suitable for the type of
Unsuitable Extinguishing Media	1:	No information a	vailable.
Specific hazards arising from	n the chemical		
Hazardous combustion products If it is involved in a fire the following can be released copper oxides.			a fire the following can be released:.
Specific hazards		No information a	vailable.
Special Protective Actions for	or Firefighters		
	<b>v</b>		

#### **Specific Methods:**

**Special Protective Equipment for Firefighters:** 

No information available

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

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency proceduresPersonal Precautions:Use personal protective equipment. Avoid contact with skin, eyes and clothing.Environmental precautionsPrevent further leakage or spillage if safe to do so.Methods and material for containment and cleaning upMethods for containmentStop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.Methods for cleaning upSweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

#### Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Handle in accordance with good industrial hygiene and safety practice.

#### Conditions for safe storage, including any incompatibilities

#### Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

#### Incompatible Materials:

Oxidizing agents Strong bases Strong acids Ammonia

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### National occupational exposure limits

#### **United States**

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Copper Metal	7440-50-8	0.1 mg/m³ TWA 1 mg/m³ TWA	1 mg/m³ TWA 0.1 mg/m³ TWA	0.2 mg/m <sup>3</sup> TWA fume	None

#### Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Copper Metal	7440-50-8	0.2 mg/m <sup>3</sup> TWA fume 1 mg/m <sup>3</sup> TWA dust	1 mg/m <sup>3</sup> TWA dust and mist	None	None
		and mist	0.2 mg/m <sup>3</sup> TWA fume		

#### **Australia and Mexico**

Component	CAS No	Australia	Mexico
Copper Metal	7440-50-8	1 mg/m <sup>3</sup> TWA	0.2 mg/m³ TWA
		0.2 mg/m <sup>3</sup> TWA	1 mg/m³ TWA

#### Appropriate engineering controls

#### Engineering measures to reduce exposure:

Ensure adequate ventilation. 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.

#### Individual protection measures, such as personal protective equipment

#### **Personal Protective Equipment**

Eye protection:	Safety glasses with side-shields.
Skin and body protection:	Chemical resistant apron Gloves Long sleeved clothing
Respiratory protection:	Respiratory protection is not necessary for normal handling. Good room ventilation or use of local exhaust (fume hood) is sufficient.
Hygiene measures:	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product When using, do not eat, drink or smoke.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	<b>Appearance:</b>	<b>Color:</b>
Solid	Metal.	Reddish.
<b>Odor:</b>	<b>Taste</b>	<b>Formula</b>
Odorless.	No information available.	Cu
Molecular/Formula weight (g/mole):	Flammability (solid, gas)	Flashpoint (°C/°F):
63.54	no data available	No information available
Flash Point Tested according to:	Autoignition Temperature (°C/°F):	Lower Explosion Limit (%):
Not available	No information available	No information available
Upper Explosion Limit (%):	<b>Melting point/range(°C/°F):</b>	Decomposition temperature(°C/°F):
No information available	1083°C/1981.4°F	No information available
Boiling point/range(°C/°F):	Bulk density:	<b>Density (g/cm3):</b>
2595°C/4703°F	No information available	No information available
Specific gravity:		

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8.94	<b>pH</b> No information available
<b>Evaporation rate:</b>	Vapor density:
No information available	No information available
Odor threshold (ppm): No information available	Partition coefficient (n-octanol/water): No information available
<b>Miscibility:</b>	<b>Solubility:</b>
No information available	Insoluble in water

Vapor pressure @ 20°C (kPa): No information available

**VOC content (g/L):** No information available

Viscosity: No information available

#### Reactivity

Chomical stability

Reacts violently with ammonium nitrate, bromates, chlorates, iodates, chloride, ethylene oxide, hydrazine mononitrate, hydrazoic acid, potassium oxide, sodium azide

**10. STABILITY AND REACTIVITY** 

Finely divided copper will react with finally divided bromates (also chlorates or iodates) of barium, calcium, magnesium potassium sodium. or zinc explosively with heat, percussion, and sometimes light friction

Finely divided copper powder reacts violently on contact with oxidizing agents (such as perchlorates, peroxides, permanganates, chlorates, nitrates, chlorine, bromine, and fluorine), and acetylenes

<u>Chemical stability</u>	
Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	Hazardous polymerization does not occur
Conditions to avoid:	Incompatible materials.
Incompatible Materials:	Oxidizing agents Strong bases Strong acids Ammonia
Hazardous decomposition products:	No information available.
Other Information Corrosivity:	No information available

Special Remarks on Corrosivity: No information available

#### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Principal Routes of Exposure:** Ingestion. Inhalation.

#### **Acute Toxicity**

#### **Component Information**

Copper Metal	
CAS No 744	40-50-8

Product code: C1340

LD50/oral/rat = No information available LD50/oral/mouse = No information available **LD50/dermal/rabbit =** No information available LD50/dermal/rat = No information available LC50/inhalation/rat = No information available **LC50/inhalation/mouse =** No information available Other LD50 or LC50information = No information available

**Product Information** 

LD50/oral/rat = Value - Acute Tox = No information available

LD50/oral/mouse = Value - Acute Tox Oral = No information available

LD50/dermal/rabbit Value - Acute Tox = No information available

LD50/dermal/rat VALUE - Acute Tox Dermal = No information available

LC50/inhalation/rat **VALUE-Vapor** = No information available VALUE-Gas = No information available VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse **VALUE-Vapor** = No information available **VALUE - Gas =** No information available VALUE - Dust/Mist = No information available

Symptoms

Skin Contact:	Granular copper or copper turnings may cause cuts or skin irritation action. Handling copper wire copper metal shot is not likely to cause		
Eye Contact:	Granular copper or copper turnings, or metal shot do not create dust handling and will not cause eye irritation by mechanical action from These forms of copper are only likely to cause irritation, uveitis, abso injury if a particle (piece) is lodged in the eye. Handling copper wire cause eye irritation.	dust formation. cess or serious	
Inhalation	It is not an inhalation hazard or will not cause respiratory tract irritation copper is not in powder form and will not create dust when handled.	on since the	
Ingestion	Ingestion may cause nausea, vomiting, diarrhea. It may affect the kind	dneys and	
Aspiration hazard	No information available.		
Delayed and immediate effects as well as chronic effects from short and long-term exposure			
Chronic Toxicity	Prolonged or repeated ingestion may affect the liver, and kidneys. C poisoning from exposure to elemental copper is rare and has general described in humans, except in individuals with Wilson disease, in w progressive copper toxicity results from hereditary metabolic disorder	ally not been hich	
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deficiency in the copper-binding and transport protein ceruloplasmin.

#### Sensitization: No information available.

Mutagenic Effects: No information available

Carcinogenic effects:

Not considered carcinogenic.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Copper Metal	7440-50-8	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity	No data is available
Reproductive Effects:	No information available
Developmental Effects:	No information available
Teratogenic Effects:	No information available

Specific Target Organ Toxicity

STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Target Organs:	No information available.

#### **12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

Ecotoxicity effects:	Aquatic environment.
Copper Metal - 7440-50-8 Algae/aquatic plants Fish Crustacea	EC50: 0.0426 - 0.0535mg/L (72h, Pseudokirchneriella subcapitata) EC50: 0.031 - 0.054mg/L (96h, Pseudokirchneriella subcapitata) LC50: 0.0068 - 0.0156mg/L (96h, Pimephales promelas) LC50: <0.3mg/L (96h, Pimephales promelas) LC50: =0.2mg/L (96h, Pimephales promelas) LC50: =0.052mg/L (96h, Oncorhynchus mykiss) LC50: =1.25mg/L (96h, Lepomis macrochirus) LC50: =0.3mg/L (96h, Cyprinus carpio) LC50: =0.8mg/L (96h, Cyprinus carpio) LC50: =0.112mg/L (96h, Poecilia reticulata) EC50: =0.03mg/L (48h, Daphnia magna)
Persistence and degradability:	No information available
Bioaccumulative potential:	No information available.
Mobility in soil Other adverse effects	No information available No information available.

#### **Disposal Methods**

Waste from residues / unused products: Waste must be disposed of in accordance with Federal, State and Local regulation.

#### Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Copper Metal	7440-50-8	None	None	None	None

#### **14. TRANSPORT INFORMATION**

#### DOT

DOT	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class	No information available
Subsidiary Class	No information available
Packing group:	No information available
Emergency Response Guide	No information available
Number	
Marine Pollutant	No data available
DOT RQ (lbs):	No information available
Special Provisions	No Information available
Symbol(s):	No information available
Description:	No information available
-	
TDG (Canada)	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
Marine Pollutant	No Information available
Description:	No information available
ADR	
UN Number	Not regulated
Proper Shipping Name:	No information available
Transport hazard class(es)	No information available
Packing group	No information available
Subsidiary Risk:	No information available
MDO	
	Not Degulated
UN-No: Brance Shinning Nome:	Not Regulated No information available
Proper Shipping Name: Hazard Class:	No information available
	No information available
Subsidiary Risk: Packing Group:	No information available
Marine Pollutant	No information available
RID	
UN Number	Not Regulated
	not nogulated

Product code: C1340

Product name: COPPER METAL, SHOT

Proper Shipping Name: Transport hazard class(es) Subsidiary Risk: Packing group	No information available No information available No information available No information available
ICAO (air)	
UN-Nó:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
ΙΑΤΑ	
UN Number	Not Regulated
Proper Shipping Name:	No information available
Transport hazard class(es)	No information available
Subsidiary Risk:	No information available
Packing group	No information available
Precautionary Statements -	No information available
Response Special Provisions	No information available

#### **15. REGULATORY INFORMATION**

#### International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
Copper Metal	7440-50-8	PresentACTIV E	Present KE-08896	Present	Not present	Present	Present	Present 231-159-6

#### **U.S. Regulations**

Copper Metal Massachusetts RTK: Present New Jersey RTK Hazardous Substance List: 0528 New Jersey (EHS) List: 0528 500 lb TPQ New Jersey - Discharge Prevention - List of Hazardous Substances: Present Pennsylvania RTK: Environmental hazard Pennsylvania RTK - Environmental Hazard List Present Michigan - Critical Materials List: Present Minnesota - Hazardous Substance List: Present New York Release Reporting - List of Hazardous Substances: 5000 lb RQ 100 lb RQ Louisana Reportable Quantity List for Pollutants: 5000lbfinal RQAs listed in 40 CFR 302.4 Table 302.4. No reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >=100 µm 2270kgfinal RQAs listed in 40 CFR 302.4 Table 302.4. No reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >=100 µm 100lbRQAs listed in Louisiana Administrative Code, Title 33, Part 1, Subpart 2, Chapter 39, Subchapter E. Applies to unauthorized emissions based on total mass emitted into the atmosphere. No reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >=100 µm 5000lbRQAs listed in Louisiana Administrative Code, Title 33, Part 1, Subpart 2, Chapter 39, Subchapter E. Applies to unauthorized emissions based on total mass emitted into or onto all media within any consecutive 24-hour period. No reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >=100 µm

#### California Directors List of Hazardous Substances: Present

#### California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

#### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

#### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Male	Female
		-		Reproductive	Reproductive
				Toxicity	Toxicity:
Copper Metal	7440-50-8	Not Listed	Not Listed	Not Listed	Not Listed

#### CERCLA/SARA

Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Copper Metal	7440-50-8	5000 lb final RQ 2270 kg final RQ	None	None		1.0 % de minimis concentration

#### U.S. TSCA

Component		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	
Copper Metal	7440-50-8	Not Applicable	Not Applicable

#### Canada

#### WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component Copper Metal 7440-50-8 (100) WHMIS 2015 Hazard Classification Acute toxicity - Oral - Category 4: H302 Harmful if swallowed.; Combustible Dust - Category 1: May form combustible dust concentrations in air (factors such as combustibility and explosiveness of dusts including composition and shape and size of particles could cause substance to belong to 'Combustible dust' hazard class)

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

#### DSL/NDSL

Copper Metal 7440-50-8 Present Not Listed	Component	CAS No	Canada (DSL)	Canada (NDSL)
	Copper Metal	7440-50-8		Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Copper Metal	7440-50-8	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Copper Metal	7440-50-8	Not listed

#### **EU Classification**

#### EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)

#### EU - CLP (1272/2008)

#### R-phrase(s)

not determined (not applicable)

#### S -phrase(s)

none

CAS No	Classification	Concentration Limits:	Safety Phrases
7440-50-8		No information	
	7440-50-8	7440-50-8	Limits:

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger: None

#### **16. OTHER INFORMATION**

Preparation Date:	12/27/2016
Revision date	4/9/2019
Prepared by:	Sonia Owen

**Disclaimer:** 

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

#### **End of Safety Data Sheet**